DUKE
UNIVERSITY



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BULLETIN OF DUKE UNIVERSITY

The School of Medicine

1944-1945

PUBLISHED BY THE UNIVERSITY
DURHAM, NORTH CAROLINA

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BULLETIN

OF

DUKE UNIVERSITY

THE SCHOOL OF MEDICINE

1944-1945

DURHAM, NORTH CAROLINA
1944

FOREWORD

This bulletin is issued for prospective medical students. Admissions into any class are made only on the understanding that every decision of the Executive Committee shall apply to all students, even though it is made subsequently to their enrollment in the School. At frequent intervals the Executive Committee reviews the records of all students, and those whose progress has been unsatisfactory may be required to leave the School. ONLY THOSE WILL BE ADVANCED WHO, IN THE OPINION OF THE EXECUTIVE COMMITTEE, GIVE PROMISE OF BEING A CREDIT TO THEMSELVES AND TO THE SCHOOL. Students who wish to study at other medical schools during one or more quarters must have their programs approved in advance by the Curriculum Committee and, on their return, must present evidence that they have completed successfully work comparable to that of the curriculum during the quarters in which they were away.

During the war all students will take the twelve quarters of the medical course consecutively, receiving their certificates at the end of three calendar years. One year of active duty in the Army or Navy Medical Corps will be accepted for the second year of the required two years of internship.

The next first-year class will be admitted on October 2, 1944. It is planned to admit subsequent first-year classes every nine months, i.e., July 2, 1945, etc.

Under present regulations only students who are ineligible for military duty may apply for admission to medical schools during 1945. Applications will be sent to those ineligible for military duty if they will write to the Committee on Admission, Duke University School of Medicine, Durham, N. C. They can be considered for the class starting July, 1945. All classes before that time are filled. Students who are eligible for military duty will be selected by the Army and the Navy from the ranks and will be assigned to the various medical schools.

Under the Army and Navy Specialized Training Program, medical students who have been assigned by the Army and Navy as Privates First Class (ASTP) or Seamen (V-12S), respectively, will have their tuition, maintenance, and other expenses paid, be uniformed, and receive fifty dollars per month during their medical course. On graduation, they will be commissioned in the Army or Navy to serve as interns for nine months on inactive status. After the completion of this internship, some will be allowed additional training as residents, and others will go on active military duty.

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1945

JANUARY

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SCHOOL OF MEDICINE CALENDAR, 1944-1945

1944

Jan.	3	Monday—Registration of students, and Winter Quarter begins.
March	25*	Saturday—Winter Quarter ends.
April	3	Monday—Registration of students, and Summer Quarter begins.
April	10	Easter Monday: a holiday.
May	27	Saturday—Commencement.
June	24*	Saturday—Spring Quarter ends.
July	3	Monday—Registration of students, and Summer Quarter begins.
Sept.	23	Saturday—Summer Quarter ends.
Oct.	2	Monday—Registration of students, and Autumn Quarter begins.
Nov.	30	Thursday—Thanksgiving: a holiday.
Dec.	23	Saturday—Autumn Quarter ends.

1945

Jan.	1	Monday—Registration of students, and Winter Quarter begins.
March	24†	Saturday—Winter Quarter ends.
April	2	Monday—Registration of students and Spring Quarter begins.
May	26	Saturday—Commencement.
June	23	Saturday—Spring Quarter ends.
July	2	Monday—Registration of students, and Summer Quarter begins.
Sept.	22‡	Saturday—Summer Quarter ends.
Oct.	1	Monday—Registration of students, and Autumn Quarter begins.
Nov.	29	Thursday—Thanksgiving: a holiday.
Dec.	22	Saturday—Autumn Quarter ends.

* First-year students do not have the holidays at the end of these two quarters; instead, they have one holiday from May 6-22, 1944.

† First-year students do not have the holiday at the end of this quarter; instead, they have a holiday from February 10-19, 1945.

‡ First-year students do not have the holiday at the end of this quarter; instead, they have a holiday from November 3-12, 1945.

FACULTY OF THE SCHOOL OF MEDICINE

DONALD KEITH ADAMS, A.B., A.M., Ph.D., *Associate Professor of Psychology.*
A.B., Pennsylvania, 1923; A.M., Harvard, 1925; Ph.D., Yale, 1927; Research Ass't., Yale Intsitute of Psychol., 1925-1927; Sterling Fellow, Yale, 1927-1928; Instr. in Psychol., Wesleyan, 1928-1929; Nat'l. Research Council Fellow, Berlin, 1929-1931; Ass't. Prof. of Psychol., Duke University, 1931-1937; Guggenheim Fellow, 1937-1938; *Associate Professor of Psychology, Duke University, 1938—; 1941—*

†LEO ALEXANDER, A.B., M.D., *Associate Professor of Neuropsychiatry.*
A.B., Obergymnasium, Maturum, 1923; M.D., Vienna, 1929; Int. in Med., Allgemeines Krankenhaus, Vienna, 1927-1928; Demonstrator in Neuroanat. and Neuropath., Vienna, 1926-1929; Int. and Ass't. Res. in Neuropsych., City and Univ. Hosp., Frankfurt am Main, 1929-1933; Teaching Ass't. in Neuropsych., Univ. of Frankfurt am Main, 1931-1933; Lecturer in Neurol. and Psych., Peiping Union Med. Coll., Peiping, China, 1933; Clin. Ass't., Worcester State Hosp., Worcester, Mass., 1934; Jr. Visit. Neurologist and Neuropathologist, Boston City Hosp., 1934-1941; Research Assoc., Boston State Hosp., 1935-1941; Teaching Ass't. and Instr. in Neurol., Harvard, 1934-1941; Visit. Psychiatrist, Washingtonian Hosp., Boston, 1938-1941; *Associate Neuropsychiatrist, Duke Hospital, 1941—*

ROBERT LEONHARDT ALTER, M.D., *Instructor in Obstetrics and Gynecology.*
M.D., Duke, 1938; Int. on Priv. Med. Serv., and in Med., Johns Hopkins Hosp., 1937-1938; Int. in Obs., Baltimore City Hosp., 1938-1939; Int., Ass't. Res., and *Resident in Obstetrics and Gynecology, Duke Hospital, 1939—*

F. VERNON ALTVATER, A.B., A.M., *Associate in Hospital Administration.*
A.B. and A.M., Duke, 1930 and 1932; Ass't. Sup't. and *Superintendent, Duke Hospital, 1930—*

EDWIN PASCAL ALYEA, S.B., M.D., *Clinical Professor of Urology.*
S.B., Princeton, 1919; M.D., Johns Hopkins, 1923; Int. in Med., Int. and Ass't. Res. in Surg.; Ass't. Res. and Res. in Urol., Johns Hopkins Hosp., 1923-1929; Ass't. and Instr. in Surg., and Instr. in Urol., Johns Hopkins Med. Sch., 1925-1930; *Urologist, Duke Hospital, 1930—*

WILLIAM BANKS ANDERSON, A.B., M.D., *Associate Professor of Surgery in Charge of Ophthalmology.*
A.B., North Carolina, 1920; M.D., Johns Hopkins, 1924; Int., Union Mem. Hosp., Balto., 1924-1925; Int., Mass. Eye and Ear Infirmary, 1925-1927; *Ophthalmologist, Duke Hospital, 1930—*

JAY MORRIS ARENA, B.S., M.D., *Assistant Professor of Pediatrics.*
B.S., West Virginia, 1930; M.D., Duke, 1932; Int. in Ped., Johns Hopkins Hosp., 1932-1933; Ass't. Res., Res., and *Assistant Pediatrician, Duke Hospital, 1933—*

THEODORE W. ATWOOD, A.B., D.M.D., *Associate in Dentistry.*
A.B., Duke, 1928; D.M.D., Harvard, 1932; Int. in Dentistry, Johns Hopkins Hosp., 1932-1934; *Dentist, Duke Hospital, 1934—*

LENOX DIAL BAKER, M.D., *Associate Professor of Surgery in Charge of Orthopaedics.*
M.D., Duke, 1933; Int. in Orth. Surg. and in Gen'l. Surg.; Ass't. Res. in Orth. Surg., and Res. in Orth., Johns Hopkins Hosp., 1933-1937; Res., Children's Hosp. Sch., 1936; Ass't. and Instr., Orth. Surg., Johns Hopkins Med. Sch., 1935-1937; *Orthopaedist, Duke Hospital, 1937—*

ROGER DENIO BAKER, A.B., M.D., *Associate Professor of Pathology in Charge of Surgical Pathology.*
A.B., Wisconsin, 1924; M.D., Harvard, 1928; Ass't. Res. Pathologist, Johns Hopkins Hosp., 1928-1930; Ass't. in Path., Johns Hopkins Med. Sch., 1928-1929; Instr., 1929-1930; Instr. in Anat., Duke Med. Sch., 1930-1932; *Associate Pathologist, Duke Hospital, 1930—*

† On active duty; U. S. Army.

RUTH ELIZABETH BARKER, A.B., M.S., *Instructor in Medical Social Service.*
A.B., Nebraska, 1928; M.S., Western Reserve, 1933; Med. Soc. Worker, University Hosps., Cleveland, 1933-1935, and Washington Univ. Clinics and Allied Hosps., St. Louis, Mo., 1935-1937; Supervisor, Med. Serv. of Social Serv. Dept., University Hosps., Cleveland, 1937-1940; *1940—*

LEO MAX BASHINSKY, A.B., M.D., *Assistant in Pediatrics.*
A.B. and M.D., Vanderbilt, 1939 and 1943; Int. and *Assistant Resident in Pediatrics, Duke Hospital, 1943—*

DONALD DEFOREST BAUER, A.B., M.D.C.M., M.Sc., *Assistant in Pathology.*
A.B., Dartmouth, 1937; M.D.C.M. and M.Sc., McGill, 1942; Int., Rotat. and Int. in Med., Baptist Hosp., 1942-1943; *Assistant Resident in Pathology, Duke Hospital, 1943—*

GEORGE JAY BAYLIN, A.B., M.D., *Assistant Professor of Radiology.*
A.B., Johns Hopkins, 1932; M.D., Duke, 1937; Ass't. in Anat., Duke Med. Sch., 1934-1937; Int. in Surg., Sinai Hosp., Balto., 1937-1938; Voluntary Ass't. in Path. Guy's Hosp., London, Sept., 1938-Feb., 1939; Instr. in Anat., Duke Med. Sch., Ass't Res., and Res. in Rad., and *Assistant Radiologist, Duke Hospital, 1939—*

DOROTHY WATERS BEARD, R.N., *Research Assistant in Experimental Surgery.*
R.N., Vanderbilt, 1929; Supervisor, Surg. Service, Vanderbilt Univ. Hosp., 1929-1931; Postgraduate Course in Surg., Charity Hosp., New Orleans, 1931-1932; *1938—*

JOSEPH W. BEARD, B.S., M.D., *Associate Professor of Surgery in Charge of Experimental Surgery.*
B.S., Chicago, 1926; M.D., Vanderbilt, 1929; Ass't. and Instr. in Surg., Vanderbilt Univ. Med. Sch., 1930-1932; Int., Ass't. Res., and Res. in Surg., Vanderbilt Univ. Hosp., 1929-1932; Ass't. in Path. and Bact., Rockefeller Instit. for Med. Research, New York City, 1932-1935; Assoc. in Path. and Bact., Rockefeller Instit. for Med. Research, Princeton, 1935-1937; *Assistant Surgeon, Duke Hospital, 1937—*

FREDERICK BERNHEIM, A.B., Ph.D., *Associate Professor of Physiology and Pharmacology.*
A.B., Harvard, 1925; Ph.D., Cambridge, 1928; Nat'l. Research Council Fellow, Johns Hopkins Med. Sch., Dept. of Physiol. Chem., 1929-1930; *1930—*

MARY LILIAS CHRISTIAN BERNHEIM, B.A., M.A., Ph.D., *Assistant Professor of Biochemistry.*
B.A., M.A., and Ph.D., Cambridge, 1925, 1927, and 1929; Fellow, Newnham, 1927-1930; *1930—*

ANNIE BESTEBREURTJE, M.D., *Assistant in Pathology.*
M.D., Johns Hopkins, 1943; *Intern in Pathology, Duke Hospital, 1943—*

OTTO BILLIG, M.D., *Associate in Neuropsychiatry.*
M.D., Vienna, 1937; Ass't. in Psych., Univ. of Vienna, 1937-1938; Ass't. in Neur., Rothschild's Hosp., Vienna, 1938-1939; Assoc. in Neuropsych., Highland Hosp., 1939; *1941—*

GEORGE ORION BOUCHER, A.B., M.D., *Assistant in Pediatrics.*
A.B., California, 1938; M.D., Duke, 1942; Int. in Ob. and Ped., 1942-1943; *Assistant Resident in Pediatrics, Duke Hospital, 1943—*

JASPER LAMAR CALLAWAY, B.S., M.D., *Assistant Professor of Medicine in Charge of Dermatology and Syphilology.*
M.D., Duke, 1932; B.S., Alabama, 1935; Ass't. Instr. in Derm. and Syphil., Univ. of Pa. Med. Sch., 1932-1933; Int. and Ass't. Res. in Med., Duke Hosp., 1933-1935; Instr. in Phys. Diag. and Path., Univ. of Alabama, Jan.-July, 1935; Instr. in Derm. and Syphil., Pa. Sch. of Med., 1935-1937; Ass't. Field Physician, U. S. Public Health Serv., Feb.-July, 1937; *Assistant Physician, Duke Hospital, 1937—*

R. CHARMAN CARROLL, A.B., M.D., *Associate in Psychiatry.*
A.B., Duke, 1935; M.D., Colorado, 1939; Int. in Ped., 1939-1940, and Res. in Psychiatry, Duke Hospital, 1940-1942; *1943—*

ROBERT SPROUL CARROLL, M.D., *Lecturer in Neuropsychiatry.*
M.D., St. Louis, 1893, and M.D., Rush, 1897; in practice, Calvert, Tex., 1893-1902; Assoc. Sup't., Marysville, Ohio, Sanatorium, 1902-1904; Pres. and Med. Dir., Highland Hosp., Inc., Asheville, N. C., 1904; *1941—*

BAYARD CARTER, A.B., B.A., M.A., M.D., *Professor of Obstetrics and Gynecology.*
A.B., Delaware, 1920; B.A. and M.A., Oxford, 1923 and 1932; M.D., Johns Hopkins, 1925; Member Obs. and Gyn. Staff of New Haven Hosp. and Yale Med. Sch., 1925-1929; Assoc. Prof. Obs. and Gyn., and Head of Dept., Univ. of Va. Med. Dept., 1929-1931; *Obstetrician and Gynecologist, Duke Hospital, 1931—*

DAVID CAYER, B.A., M.D., *Instructor in Medicine.*
B.A. and M.D., Duke, 1935 and 1938; Int., N. C. Sanatorium for Tuberculosis, Jan. 1-March 31, 1939; Int., Ass't. Res., and Resident in Medicine, Duke Hospital, 1939-1942; *1939—*

ARTHUR B. CECIL, JR., A.B., M.D., *Assistant in Surgery.*
A.B., Harvard, 1932; M.D., Johns Hopkins, 1942; Int. in Surg., Johns Hopkins, 1942-1943; *Assistant Resident in Surgery, Duke Hospital, 1943—*

ELON HENRY CLARK, *Instructor in Art and Photography as Applied to Medicine.*
Rochester Athenaeum and Mechanics Instit., 1926-1930; Johns Hopkins Sch. of Med. Art, 1930-1932; Instr., Johns Hopkins Sch. of Med. Art, 1932-1933; *Artist, Duke Hospital, 1934—*

JAMES WESLEY CLOWER, M.D., *Assistant in Otolaryngology and Ophthalmology.*
M.D., Georgia, 1940; Int., Rotat., Baroness Erlanger Hosp., 1940-1941; in practice, Orange Gen. Hosp., Fla. Sanatarium and Hosp., 1942-1943; *Assistant Resident in Otolaryngology and Ophthalmology, Duke Hospital, 1943—*

NORMAN FRANCIS CONANT, B.S., A.M., Ph.D., *Assistant Professor of Bacteriology and Mycology.*
B.S., Bates, 1930; A.M. and Ph.D., Harvard, 1931 and 1933; Research Fellow, Laboratoire de Parasitologie, Fac. de Médecine, Paris, 1933-1934; Research Ass't, Harvard Med. Sch. and Mass. Gen'l. Hosp., Jan. 1 to Oct. 1, 1935; *1935—*

THOMAS BUCKINGHAM COOLIDGE, B.A., Ph.D., M.D., *Assistant Professor of Biochemistry.*
B.A. and M.D., Harvard, 1923 and 1927; Ph.D., Columbia, 1937; Int. in Med., Mass. Gen'l. Hosp., 1927-1929; Tutor and Research Ass't. in Chem., Harvard College, 1929-1932; Ass't. in Biochem., College of Physicians & Surgeons, 1934-1935; *1935—*

ALBERT DERWIN COOPER, A.B., M.D., *Instructor in Medicine.*
A.B. and M.D., George Washington, 1932 and 1931; Int., Rotat., Garfield Mem. Hosp., Washington, 1931-1932; Int. in Path. and Med., Duke Hospital, 1932-1934; *1934—*

GERALD RICE COOPER, A.B., M.A., Ph.D., *Research Associate in Experimental Surgery.*
A.B., M.A., and Ph.D., Duke, 1936, 1938, and 1939; Research Ass't. and Research Assoc. in Biochemistry, 1939-1942; *1942—*

HOYLE WILLIAM CRAIG, *Technical Instructor in Bacteriology.*
Ass't. and Technical Instructor in Bacteriology; *1930—*

†ROBERT LAWRENCE CRAIG, B.A., M.D., *Instructor in Neurology.*
B.A., Amherst, 1931; M.D., Johns Hopkins, 1935; Int. and Ass't. Res. in Med., 1935-1937, and Ass't. Res. in Neurol., Balto. City Hosps., 1937-1938; Ass't. in Neurol., Johns Hopkins Med. Sch., 1937-1938; Res. in Neuropsychiatry and *Assistant Neurologist, Duke Hospital, 1938—*

ERLE BULLA CRAVEN, JR., A.B., M.D., *Associate in Medicine.*
A.B., Duke, 1925; M.D., Johns Hopkins, 1929; Ass't. in Path., Johns Hopkins Med. Sch., 1929-1930; Res. in Path., Int., Ass't. Res. and Res. in Med., Duke Hospital, 1930-1934; *1937—*

† On active duty; U. S. Army.

*RAYMOND S. CRISPELL, A.B., M.D., *Associate Professor of Neuropsychiatry.*
A.B. and M.D., Cornell, 1917 and 1920; Staff, Bloomingdale Hosp. and Instr. in Neuroanatomy, Cornell, 1920-1923; House Physician and Resident Neurologist, Bellevue Hosp., N. Y., 1921-1923; Fellow in Neurology, Univ. of Utrecht, Holland, 1925; Med. Dir., Sahler Sanitarium, 1926-1933; *Neuropsychiatrist, Duke Hospital, 1933—*

W. KENNETH CUYLER, B.A., M.A., Ph.D., *Research Instructor in Obstetric and Gynecologic Laboratory Technics.*
B.A., Texas, 1923; M.A., Western Reserve, 1929; Ph.D., Duke, 1941; Dir. of Clin. Lab., Dept. of Endocrinol. and Metabolism, Cleveland Clinics, 1929-1938; *1938—*

BINGHAM DAI, A.B., M.A., Ph.D., *Lecturer in Psychiatry.*
A.B., St. John's, 1923; M.A. and Ph.D., Chicago, 1932 and 1935; Fellow in Soc. Sc., Yale, 1932-1933; Instit. for Psychoanalysis, 1933-1935; Fellow, Assoc., Ass't. Prof., Peiping, 1933-1939; Lecturer in Soc., Tsin Hua, 1936-1937; Lecturer in Soc. Psych., Fisk, 1939-1942; *1943—*

WILLIAM JOHN DANN, B.Sc., Ph.D., D.Sc., *Associate Professor of Physiology and Nutrition.*
B.Sc., Sheffield, 1925; Ph.D., Cambridge, 1930; D.Sc., Sheffield, 1943; Med. Research Scholar, Worshipful Co. of Grocers, 1931-1933; Beit Mem. Research Fellow, 1933-1937; *1934—*

WILLIAM J. DARBY, M.D., M.S., Ph.D., *Instructor in Preventive Medicine and Public Health.*
M.D., Arkansas, 1937; M.S. and Ph.D., Michigan, 1940 and 1941; Instr. in Physiol. Chem., Univ. of Arkansas Sch. of Med., 1937-1939; Nat'l. Res. Council Fellow in Med. Sc., Coll. of Phys. and Surg., Columbia, N. Y., 1941-1942; Spec. Fellow, Internat'l. Health Div., Rockefeller Found., Vanderbilt, 1942-1943; Medical Nutritionist, North Carolina State Board of Health; *1943—*

CLARENCE DANIEL DAVIS, S.B., M.D., *Instructor in Endocrinology.*
S.B., Mass. Inst. of Technology, 1935; M.D., Johns Hopkins Med. Sch., 1939; Int., Rotat., Robert Packer Hosp., Sayre, Pa., 1939-1940; Int., Rotat., Genesee Hosp., Rochester, N. Y., 1940-1941; Int. in Ob. & Gyn., University Hosp., Minneapolis, Minn., 1941-1942; Ass't. Res. and Res. in Endocrinology, Duke Hospital, 1942-1943; *1943—*

ATALA THAYER SCUDDER DAVISON, A.B., M.D., *Assistant in Pediatrics.*
A.B., Bryn Mawr, 1915; M.D., Johns Hopkins, 1920; Ass't. in Bact., Am. Red Cross, A.E.F., 1917-1918; *Assistant Pediatrician, Duke Hospital, 1942—*

WILBURT CORNELL DAVISON, A.B., B.A., B.Sc., M.A., M.D., D.Sc., *Dean of the School of Medicine and Professor of Pediatrics.*
A.B., Princeton, 1913; B.A., B.Sc., and M.A., Oxford, 1915, 1916, and 1919; M.D., Johns Hopkins, 1917; D.Sc., Wake Forest, 1932; Int., Radcliffe Infirmary, 1915-1916; Ass't. Res., Assoc. Ped., Acting Pediatrician in Charge, Johns Hopkins Hosp., 1919-1927; Instr., Assoc., Assoc. Prof., Acting Head of Dept. of Ped., and Ass't. Dean, Johns Hopkins Med. Sch., 1919-1927; *Pediatrician, Duke Hospital, 1927—*

PERCY MILLARD DAWSON, A.B., M.D., *Visiting Professor of Physiology.*
A.B. and M.D., Johns Hopkins, 1894 and 1898; Fellow and Assoc. Prof. of Physiol., Johns Hopkins Med. Sch., 1898-1909; Divinity Stud., Harvard, and Clergyman, Ann Arbor, 1909-1912; Instr. and Assoc. Prof. of Physiol., Wisconsin, 1913-1932; Stud. Visitor U.S.S.R., 1935-1936; *Visiting Professor of Physiology, Duke Hospital, 1943—*

JOHN ESSARY DEES, B.S., M.D., *Assistant Professor of Urology.*
B.S. and M.D., Virginia, 1930 and 1933; Int. and Ass't. Res., Johns Hopkins Hosp., 1933-1937, and Res. in Urol., Ancker Hosp., 1937-1938, and Johns Hopkins Hosp., 1938-1939; *Assistant Urologist, Duke Hospital, 1939—*

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HERMAN DE JONG, A.B., M.D., *Associate Professor of Neuropsychiatry.*
A.B., Amsterdam, Holland, 1912; M.D., Amsterdam, 1918; Int. in Amsterdam Univ. Hosp., 1918-1923; Chef de Clinique, Amsterdam Univ. Hosp., Dept. of Neurol., 1923-1928; Dir. of Neuro-Physiological Instit. and Chief of Outdoor Dept., Neurological Clinic, Amsterdam Univ. Hosp., 1938-1940; Res. Ass't., N. Y. State Psychiatric Instit. and Hosp. (Columbia Univ.), 1940-1941; *Associate Professor of Neuropschiatry, 1943—*

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MACDONALD DICK, B.A., M.A., M.D., *Assistant Professor of Physiology and Pharmacology, and Associate in Medicine.*
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ISADORE NATHAN DUBIN, B.Sc., M.D., C.M., *Instructor in Pathology.*
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KENNETH LINDSAY DUKE, A.B., Ph.D., *Associate in Anatomy.*
A.B., Brigham Young, 1936; Ph.D., Duke, 1940; Grad. Ass't. in Zool., Brigham Young Univ., 1936-1937; Grad. Ass't. in Zool., 1937-1939, and Fellow in Zool., Duke, 1939-1940; *1940—*

GEORGE SHARP EADIE, M.A., M.B., Ph.D., *Professor of Physiology and Pharmacology.*
M.A. and M.B., Toronto, 1923 and 1921; Ph.D., Cambridge, 1927; Demonstrator in Biochem., Toronto, 1923-1925; Ass't. in Physiol., Dalhousie, 1927-1928; Assoc. in Physiol., Johns Hopkins Med. Sch., 1928-1930; *1930—*

WATT WEEMS EAGLE, A.B., M.D., *Associate Professor of Surgery in Charge of Otolaryngology.*
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WILEY DAVIS FORBUS, A.B., M.D., *Professor of Pathology.*
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A.B., Wittenburg, 1924; M.D., Johns Hopkins, 1928; Int. and Ass't. Res., Johns Hopkins Hosp., 1928-1930; Ass't. in Surg., Johns Hopkins Med. Sch., 1929-1930; Res. in Surgery and *Associate Surgeon, Duke Hospital, 1930—*

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A.B., M.S., B.S., Alabama, 1928 and 1930; M.D., Harvard, 1932; Jr. Fellow, Lahey Clinic, 1931-1932; Int., Boston Psych. Hosp., June 1-Sept. 30, 1932; Int., Boston City Sanat., Oct. 1, 1932-Jan. 31, 1933; Int., Rotat., Rhode Island Hosp., Feb. 1, 1933-Jan. 31, 1935; Res., Psych., Butler Psych. Hosp., Feb. 1-June 30, 1935; Dir., School Clinics & Pub. H., Bristol County, Mass., July 1, 1935-May 31, 1936; Clin. Dir. and Supt., R. I. Sanatorium, June 1, 1936-Aug. 15, 1937; Res., Boston Psych. Hosp., Sept. 1, 1938-Aug. 31, 1939; Res. Neurol., N. Y. City Hosp., March 1-May 31, 1940; Staff Phys., State Hosp., Morganton, N. C., June 20, 1940-Aug. 31, 1941; Private Practice of Neuropsych., Greensboro, N. C., 1941—

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B.S. and M.D., Virginia, 1921 and 1928; Ass't. and Instr. in Pharmacol., and Materia Medica, Baylor Med. Coll., 1922-1926; Int. and Res., Obs. and Gyn., Univ. of Va. Hosp., 1928-1930; Clin. Instr. in Obs. and Gyn., Univ. of Va. Med. Dept., 1930-1931; *Associate Obstetrician and Gynecologist, and Endocrinologist, Duke Hospital, 1931—*

PHILIP HANDLER, B.S., M.S., Ph.D., *Assistant Professor of Biochemistry and Nutrition.*
B.S., Coll. of City of New York, 1936; M.S. and Ph.D., Illinois, 1937 and 1939; *1939—*

ABRAM ERNEST HANDY, JR., B.S., M.D., *Assistant in Radiology.*
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FREDERIC M. HANES, A.B., A.M., M.D., D.Sc., *Florence McAlister Professor of Medicine.*
A.B., North Carolina, 1903; A.M., Harvard, 1904; M.D., Johns Hopkins, 1908; D.Sc., Wake Forest, 1943; Int., Johns Hopkins Hosp., 1908-1909; Assoc. Prof. of Path., Columbia, and Pathologist, Presbyterian Hosp., N. Y., 1909-1912; Assoc., Rockefeller Instit., 1912-1913; Assoc. Prof. of Med., Washington Univ. Med. Dept., 1913-1914; Ass't. in Neurol., Queen Square Hosp., London, 1914; Prof. of Therapeutics, Med. Coll. of Va., 1914-1916; Lt. Col. Commanding Base Hosp. 65, A. E. F., 1917-1918; *Physician, Duke Hospital, 1930—*

JOHN J. HANLON, B.S., M.S., M.D., M.P.H., *Lecturer in Preventive Medicine and Public Health.*
B.S., Mass. Instit. Tech., 1933; M.S., Harvard, 1934; M.B. and M.D., Wayne, 1940 and 1941; M.P.H., Johns Hopkins, 1942; Int., Harper Hosp., 1940-1941; Ass't. Statistician and Epidem., Herman Kiefer Hosp. and Dept. H., 1934-1940; Acting Associate Professor of Public Health Administration and Statistics, North Carolina, 1942—

OSCAR CARL EDVARD HANSEN-PRÜSS, A.B., M.D., *Assocaite Professor of Medicine in Charge of Clinical Microscopy.*
A.B., Universidad Mayor de San Marcos, 1919; Vol. Ass't. in Path., Friedrich Wilhelm Universität, Berlin, 1920-1921; M.D., Johns Hopkins, 1924; Int., Ass't. Res. in Med., and Ass't. Phys. Johns Hopkins Hosp., 1924-1930; Ass't., Instr., and Assoc. in Medicine, Johns Hopkins Med. Sch., 1925-1930; *Associate Physician, Duke Hospital, 1930—*

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DERYL HART, A.B., A.M., M.D., *Professor of Surgery.*
A.B. and A.M., Emory, 1916 and 1917; M.D., Johns Hopkins, 1921; Int. in Surg., Ass't. Res. in Surg. Path., Ass't. Res. and Res. in Surg., and Assoc. Surg., Johns Hopkins Hosp., 1921-1930; Ass't. in Path., Instr., and Assoc. in Surg., Johns Hopkins Med. Sch., 1922-1930; *Surgeon, Duke Hospital, 1930—*

JAMES EUGENE HEMPHILL, B.A., M.D., *Associate in Radiology.*
B.A., Hampden-Sydney, 1933; M.D., Virginia, 1937; Int., U. S. Pub. H. Serv., Marine Hosp., Baltimore, 1937-1938; Ass't. Surg., Marine Hosp., Portland, Me., 1938-1939; Marine Hosp., Fort Worth, Tex., and Marine Hosp., Boston, 1939-1940; Ass't. Res. and Res. in Radiol., and *Assistant Radiologist, Duke Hospital, 1940—*

JAMES PAISLEY HENDRIX, B.S., M.A., M.D., *Associate in Medicine.*
B.S., Davidson, 1925; M.A., Davidson, 1926; M.D., Pennsylvania, 1930; Int., Hosp. of Univ. of Pa., 1930-1932; Res. Fellow in Pharm., Pennsylvania, 1932-1935; Instr. in Pharm., 1935-1938; Part-time Staff Phys., Med. and Gastro-Intestinal Clinics, University Hosp., 1935-1938; *Assistant Physician, Duke Hospital, 1938—*

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DUNCAN CHARTERIS HETHERINGTON, A.B., M.A., Ph.D., M.D., *Associate Professor of Anatomy.*
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WILLIAM HENRY HOLLINSHEAD, B.A., M.S., Ph.D., *Assistant Professor of Anatomy.*
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B.S., M.S., and Ph.D., Mass. Instit. of Tech., 1933, 1934, and 1937; Res. Assoc., Mass. Instit. of Tech., 1937-1939; Ass't. Prof., Pub. H. Eng., Georgia Sch. of Tech., 1939-1942; Ass't. Prof., San. Eng., North Carolina, 1942—

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HOWARD EIKENBERRY JENSEN, A.B., A.M., B.D., Ph.D., *Professor of Sociology and Mental Hygiene.*
A.B. and A.M., Kansas, 1914 and 1915; B.D. and Ph.D., Chicago, 1917 and 1920; Fellow in Soc., Chicago, 1916-1918; Dir. Latin-American Survey, Interchurch World Movement, 1919-1920; Prof. of Soc., Butler, 1920-1928; Prof. of Soc., and Dir. of the Social Serv. Training Curriculum, Missouri, 1928-1931; Professor of Sociology, Duke University, 1931; *1941—*

CHRISTOPHER JOHNSTON, A.B., M.D., *Assistant Professor of Medicine.*
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HELEN LOUISE KAISER, R.P.T.T., *Instructor in Physical Therapy, in Charge of Division of Physical Therapy.*
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HANS LÖWENBACH, M.D., *Assistant Professor of Neuropsychiatry and Physiology.*
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ANGUS McBRYDE, B.S., M.D., *Assisant Professor of Pediatrics.*
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B.S., Purdue, 1918; M.S., Illinois, 1923; Ph.D., Wisconsin, 1927; Instr. in Physiol., Illinois, 1920-1923; Instr. in Physiol., Wisconsin Med. Sch., 1923-1927; Ass't. Prof. of Physiol. and Pharmacol., Georgia Med. Sch., 1927-1929; Sr. Instr. in Physiol., Western Reserve Med. Sch., 1929-1930; *1930—*

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MAX PRITCHARD ROGERS, A.B., M.D., *Assistant in Surgery.*
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M.D., Pennsylvania, 1889; Student, Hygienische Institut, Berlin, 1892-1893; L'Institut Pasteur, Paris, 1900; Pathologisches Institut, Vienna, 1900; Hon. A.M., Harvard; Professor of Epidemiology and Director of the School of Public Health, University of North Carolina, *1936—*

†NORMAN F. ROSS, D.D.S., *Instructor in Dentistry.*
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MARVIN PIERCE RUCKER, A.M., M.D., L.L.D., *Lecturer in Obstetrics and Gynecology.*
A.B., A.M., and L.L.D., Randolph-Macon, 1899 and 1938; M.D., Johns Hopkins, 1903; N. Y. Lying-In Hosp.; Demonstrator in Physiol., Pharmacol., Histol., Path., Embryol. and Obs., and Assoc. in Obs., and Assoc. Prof. of Obs., Med. Coll. of Va., 1903-1930; Obstetrician, Johnson-Willis Hosp., Richmond, Va., 1930; *1941—*

JULIAN MEADE RUFFIN, A.B., M.A., M.D., *Associate Professor of Medicine.*
A.B., M.A., and M.D., Virginia, 1921, 1922, and 1926; Int. and Res., Bellevue Hosp., N. Y., 1926-1928; Instr. in Phys. Diag., George Washington Med. Sch., 1928-1930; *Associate Physician, Duke Hospital, 1930—*

CHARLES HENRY SAWYER, A.B., Ph.D., *Associate in Anatomy.*
A.B., Middlebury, 1937; Ph.D., Yale, 1941; Ass't. in Biol., Middlebury, 1936-1937; Ass't. in Zool., Yale, 1938-1941; Instr. in Anat., Stanford, 1941-1943; *Associate in Anatomy, Duke Hospital, 1944—*

HERMAN MAX SCHIEBEL, A.B., M.D., *Instructor in Surgery.*
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CLOTILDE SCHLAYER, Ph.D., *Research Assistant in Medicine.*
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B.S., Rutgers, 1932; M.A. and Ph.D., Duke, 1937 and 1939; Research Physicist in x-ray and ultravoilet ray, Westinghouse Elec. & Mfg. Co., Bloomfield, N. J., 1932-1936; Research Fellow is Physics, Duke Univ., and Fellow in Surg., Duke Med. Sch., 1936-1939; *1939—*

PAUL ERVIN SIMPSON, A.B., M.D., *Assistant in Obstetrics and Gynecology.*
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DAVID TILLERSON SMITH, A.B., M.D., *Professor of Bacteriology and Associate Professor of Medicine.*
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PRESTON WILLIAM SMITH, *Technical Instructor in Clinical Microscopy.*
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ALTON ROBERT TAYLOR, B.S., Ph.D., *Research Associate in Surgery.*
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HAYWOOD MAURICE TAYLOR, B.S., M.S., Ph.D., *Associate Professor of Biochemistry and Toxicology.*
B.S., M.S., and Ph.D., North Carolina, 1920, 1921, and 1924; Instr. in Chem. and Pharmaceut. Chem., North Carolina, 1920-1925; Research Chemist, E. R. Squibb & Sons, and Fisk Rubber Co., 1925-1928; Instr. in Ophthalmol., and Chemist to Wilmer Institute, Johns Hopkins Hosp., 1928-1930; Visiting Fellow in Forensic Med., New York Univ., 1934; *Associate Biochemist and Toxicologist, Duke Hospital, 1930—*

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EDGAR TRISTRAM THOMPSON, A.B., A.M., Ph.D., *Associate Professor of Sociology and Mental Hygiene.*
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B.A., Wooster, 1932; M.A., Wesleyan, 1933; M.D., Ohio State, 1938; Int., Rotat., Franklin County Hosp., Columbus, Ohio, 1938-1939; Int. and Ass't. Res. in Surg., Duke Hosp., 1939-1941; in practice, 1941-1942; *Assistant Resident in Surgery, Duke Hospital, 1942—*

JAMES MAZYCK WILSON, A.B., M.D., *Assistant in Obstetrics and Gynecology.*
A.B., Princeton, 1933; M.D., South Carolina, 1937; Int., Rotat., Gorgas Hosp., Ancon, Canal Zone, 1937-1938; Int. in Path., and in Med., and Int. and *Assistant Resident in Obstetrics and Gynecology, Duke Hospital, 1938—*

‡NANCY BOWMAN WISE, A.B., M.D., *Associate and James A. Greene Research Fellow in Medicine.*
A.B., Mt. Holyoke, 1932; M.D., Yale, 1937; Int. and Ass't. Res. in Med., and *Research Fellow in Medicine and Bacteriology, Duke Hospital, 1937—*

†BARNES WOODHALL, A.B., M.D., *Assistant Professor of Surgery in Charge of Neurosurgery.*
A.B., Williams, 1926; M.D., Johns Hopkins, 1930; Int., Ass't. Res. and Res. in Surg., Johns Hopkins Hosp., 1930-1937; Ass't. and Instr. in Surg., Johns Hopkins Med. Sch., 1931-1937; *Neurosurgeon, Duke Hospital, 1937—*

JOHN JOSEPH WRIGHT, A.B., M.D., M.P.H., *Instructor in Preventive Medicine and Public Health.*
A.B. and M.D., Vanderbilt, 1931 and 1935; M.P.H., Johns Hopkins, 1939; Int., Vanderbilt Hosp., 1935-1936; Research Professor of Epidemiology, North Carolina, *1940—*

FELLOWS

GRACE VERONICA ANDREW, M.D., Tulane, 1944, Rockefeller Foundation Scholar; *Pediatrics.*

CLYDE OWENS BRINDLEY, A.B., Texas, 1938; M.D., Duke, 1943; *Fellow in Physiology.*

EWAN FREDERICK BRAITHEWAITE CADMAN, M.D., Washington, 1942; Rockefeller Foundation Scholar; *Medicine.*

GUILLERMO CASIS, B.A. and M.D., Mexico, 1929 and 1934; State Department Fellowship; *Pediatrics.*

JESSE W. HUFF, B.S., Pittsburgh, 1940; *Nutrition Foundation Fellow in Biochemistry.*

‡ On leave of absence.
† On active duty; U. S. Army.

ANTONY JEFFERSON, B.A. and B.Sc., Oriel, 1941 and 1942; M.D., C. M., McGill, 1943; Rockefeller Foundation Scholar; *Surgery.*

SIGMUNDUR JONSSON, M.D., Iceland; Rockefeller Foundation Scholar; *Medicine.*

FRIDRIK KRISTOFERSSON, M.D., Iceland, 1941; Rockefeller Foundation Scholar; *Neurology.*

LAURENCE ATKINSON LIVERSEDGE, A.B. and B.Sc., Manchester, 1939; M.D., Duke, 1943; Rockefeller Foundation Scholar; *Pathology.*

I. WILLIAM McLEAN, JR., B.S., Davidson, 1938; M.D., Duke, 1942; *Research Fellow in Virus Diseases.*

CARLOS MARDONES, M.D., Chile, 1938; Rockefeller Foundation Scholar; *Obstetrics and Gynecology.*

FRANK W. PUTNAM, A.B. and M.A., Wesleyan, 1939 and 1940; Ph.D., Minnesota, 1942; Research Fellow; *Biochemistry.*

GUSTAVO ROSS, M.D., Chile, 1943; Pan American Sanitary Bureau Fellow; *Pediatrics.*

OLAFUR SIGFURDSSON, M.D., Iceland; Rockefeller Foundation Scholar; *Medicine.*

ELLIOTT VOLKIN, B.S., Pennsylvania, 1942; Abbott Laboratories Fellow; *Biochemistry.*

JUAN ZAÑARTU, M.D., Chile, 1942; Pan American Sanitary Bureau Fellow; *Endocrinology.*

NONRESIDENT FELLOWS

†TROGLER FRANCIS ADKINS, M.D., Duke, 1936; *Obstetrics and Gynecology.*

†RAYMOND BURK ANDERSON, A.B., M.D., Kansas, 1935 and 1939; *Pediatrics.*

†ELBERT D. APPLE, M.D., Washingotn, 1929; *Medicine.*

†HOWARD D. APPLE, D.D.S., Atlanta Southern, 1939; *Dentistry.*

†RALPH A. ARNOLD, B.A., Rochester, 1932; M.D., Buffalo, 1936; *Ophthalmology and Otolaryngology.*

†GORDON JOSEPH AXELSON, M.D., Duke, 1937; *Medicine.*

†WILLIAM STERRY BRANNING, B.S., North Carolina, 1934; M.D., Yale, 1939; *Pediatrics.*

†WILLIAM HENRY BRIDGERS, B.S. and M.D., Duke, 1936; *Surgery.*

†IVAN WILLARD BROWN, JR., B.S. and M.D., Duke, 1940; *Pathology.*

†WOODROW WILSON BURGESS, A.B. and M.D., Duke, 1937 and 1941; *Neuropsychiatry.*

†FRED S. CADDELL, A.B., Elon, 1930; D.D.S., Atlanta Southern, 1934; *Dentistry.*

† On active duty; U. S. Army.

†JAMES HENDERSON CHERRY, B.S. and M.D., Duke, 1932 and 1934; *Orthopaedics.*

†WILLIAM DEMPSEY FARMER, A.B. and M.D., Duke, 1930 and 1934; *Ophthalmology and Otolaryngology.*

†WILLIAM LORENZ HALTOM, M.D., Duke, 1932; *Urology.*

†JOSEPH SPURGEON HIATT, JR., A.B. and M.D., Duke, 1936 and 1940; *Medicine.*

*JOSEPH M. HITCH, A.B., Delaware, 1929; M.D. and M.S., Virginia, 1933 and 1938; *Dermatology and Syphilology.*

†WILLIAM FREDWIN HOLLISTER, M.D., Duke, 1938; *Surgery.*

†JULIAN ERICH JACOBS, M.D., Nebraska, 1935; *Orthopaedics.*

†ARTHUR G. JAMES, M.D., Ohio, 1933; *Surgery.*

†ARTHUR HARVEY JOISTAD, JR., A.B., North Dakota, 1933; M.D., Duke, 1938; *Radiology.*

†HAROLD BARKER KERNODLE, M.D., Duke, 1939; *Surgery.*

†ROBERT CARL LINCICOME, M.D., Duke, 1938; *Medicine.*

†RUDOLPH POWERS McCULLOCH, A.B., Michigan State Normal, 1937; M.D., Duke, 1942; *Medicine.*

†COYTE R. MINGES, D.D.S., Virginia, 1936; *Dentistry.*

†GIBBONS WESTBROOK MURPHY, M.D., Emory, 1923; *Radiology.*

†GLENN CARRAWAY NEWMAN, B.S. and M.D., Duke, 1938 and 1939; *Medicine.*

†PAUL WELSTEAD SCHANHER, JR., B.S. and M.D., Duke, 1935 and 1938; *Surgery.*

†WILLIAM SCHULZE, B.S., Richmond, 1932; M.D., Duke, 1936; *Medicine.*

†WILL CAMP SEALY, B.S. and M.D., Emory, 1933 and 1936; *Surgery.*

†CHRISTOPHER STUART, JR., M.D., McGill, 1934; *Urology.*

†HUGH FRANKLIN SWINGLE, JR., B.S., Tennessee, 1933; M.D., Duke, 1936; *Medicine.*

†EVERETTE R. TEAGUE, D.D.S., Atlanta Southern, 1933; *Dentistry.*

†EDWIN HALE THORNHILL, M.D., Duke, 1938; *Ophthalmology and Otolaryngology.*

†SAMUEL EARLE UPCHURCH, B.A. and M.D., Vanderbilt, 1929 and 1933; *Surgery.*

†CHESTER H. WATERS, JR., B.A., Amherst, 1932; M.D., Nebraska, 1936; *Orthopaedics.*

†PERRY B. WHITTINGTON, JR., D.D.S., Pennsylvania, 1932; *Dentistry.*

†LOUIS B. ZIV, A.B. and M.D., Johns Hopkins, 1926 and 1930; *Surgery.*

† On active duty; U. S. Army.
* On active duty; U. S. Navy.

STAFF OF DUKE HOSPITAL

Administrative Committee

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Administrative and Technical Staff

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F. Vernon Altvater, A.B., A.M., *Superintendent.*
F. Ross Porter, A.B., *Assistant Superintendent.*
Harold Chandler Mickey, B.B.A., *Assistant Superintendent.*
Reid Thomas Holmes, A.B., *Assistant Superintendent.*
Margaret I. Pinkerton, B.S., R.N., *Dean of School of Nursing.*
Elsie Wilson Martin, A.B., M.S., *Professor of Dietetics.*
I. Thomas Reamer, Ph.G., *Pharmacist.*
†Archibald Edward Millis, B.S., *Assistant Pharmacist.*
†Eugene T. Brown, B.S., *Assistant Pharmacist.*
Reba New Hobgood, *Public Dispensary.*
Judith Farrar, A.B., B.S., *Librarian.*
Mary Helen Snively, R.N., Anes., *Anesthetist.*
Ruth Elizabeth Barker, A.B., M.S., *Social Service.*
Jessie Harned, *Record Librarian.*
Elon Henry Clark, *Artist.*
Helen Louise Kaiser, R.P.T.T., *Physical Therapist.*
†Henry Floyd Pickett, A.B., *Photographer.*
Robert D. Little, *Asssitant Photographer.*
Christian Adolph Letzing, *Braces and Instruments.*
†William A. McElduff, *Assistant, Braces and Instruments.*

Hospital and Public Dispensary Teaching Staff

Chiefs of Services

Edwin Pascal Alyea, S.B., M.D., *Urology.*
William Banks Anderson, A.B., M.D., *Ophthalmology.*
Theodore W. Atwood, A.B., D.M.D., *Dentistry.*
Lenox Dial Baker, M.D., *Orthopaedics.*
Jasper Lamar Callaway, B.S., M.D., *Dermatology and Syphilology.*
Bayard Carter, A.B., B.A., M.A., M.D., *Obstetrics and Gynecology.*
Wilburt Cornell Davison, A.B., B.A., B.Sc., M.A., D.Sc., M.D., *Pediatrics.*
Watt Weems Eagle, A.B., M.D., *Otolaryngology.*
George Burton Ferguson, M.S., M.D., *Bronchoscopy.*
Wiley Davis Forbus, A.B., M.D., *Pathology.*
Robert Williams Graves, B.S., M.A., M.D., *Neurology.*
Edwin Crowell Hamblen, B.S., M.D., *Endocrinology.*
Frederic M. Hanes, A.B., A.M., M.D., *Medicine.*
Oscar Carl Edvard Hansen-Prüss, A.B., M.D., *Hematology and Allergy.*
Deryl Hart, A.B., M.A., M.D., *Surgery.*
Richard Sherman Lyman, B.A., M.D., *Neuropsychiatry.*
William McNeal Nicholson, A.B., M.D., *Diseases of Metabolism.*
William Alexander Perlzweig, B.S., A.M., Ph.D., *Biochemistry.*
Robert James Reeves, A.B., M.D., *Radiology.*
Julian Meade Ruffin, A.B., M.A., M.D., *Gastro-enterology.*

† On active duty; U. S. Army.

DAVID TILLERSON SMITH, A.B., M.D., *Bacteriology.*
†BARNES WOODHALL, A.B., M.D., *Neurosurgery.*

Associate Staff

NORMAN FRANCIS CONANT, B.S., A.M., Ph.D., *Mycology.*
DAVID CAYER, B.A., M.D., *Medicine.*
ERLE BULLA CRAVEN, JR., A.B., M.D., *Medicine.*
MACDONALD DICK, A.B., M.A., M.D., *Medicine.*
*HERBERT JUNIUS FOX, A.B., M.D., *Medicine.*
†SNOWDEN COWMAN HALL, A.B., M.D., *Medicine.*
JAMES PAISLEY HENDRIX, B.S., M.A., M.D., *Medicine.*
CHRISTOPHER JOHNSTON, A.B., M.D., *Medicine.*
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†JOSEPH BLACKBURN STEVENS, B.S., M.D., *Medicine.*
‡NANCY BOWMAN WISE, A.B., M.D., *Medicine.*
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†PAUL GERHARD REQUE, M.D., *Dermatology and Syphilology.*
MARY ALVERTA POSTON, A.M., *Bacteriology.*
JOSEPH W. BEARD, B.S., M.D., *Surgery.*
†CLARENCE ELLSWORTH GARDNER, JR., A.B., M.D., *Surgery.*
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DURWARD LEE LOVELL, M.D., *Surgery.*
KENNETH LEROY PICKRELL, M.D., *Surgery.*
HERMAN MAX SCHIEBEL, A.B., M.D., *Surgery.*
GUY LEARY ODOM, M.D., *Neurosurgery.*
ROBERT BEVERLY RANEY, A.B., M.D., *Orthopaedics.*
JOHN ESSARY DEES, B.S., M.D., *Urology.*
†LOUIS CARROLL ROBERTS, A.B., M.D., *Urology.*
ELEANOR BEAMER EASLEY, B.A., M.A., M.D., *Obstetrics and Gynecology.*
WILLIAM ALEXANDER GRAHAM, A.B., M.D., *Obstetrics and Gynecology.*
*ROBERT ALEXANDER ROSS, B.S., M.D., *Obstetrics and Gynecology.*
†WALTER LEE THOMAS, JR., A.B., M.A., M.D., *Obstetrics and Gynecology.*
CLARENCE DANIEL DAVIS, S.B., M.D., *Endocrinology.*
JAY MORRIS ARENA, B.S., M.D., *Pediatrics.*
ATALA THAYER SCUDDER DAVISON, A.B., M.D., *Pediatrics.*
SUSAN COONS DEES, A.B., M.S., M.D., *Pediatrics.*
†JEROME SYLVAN HARRIS, A.B., M.D., *Pediatrics.*
ARTHUR HILL LONDON, JR., A.B., M.D., *Pediatrics.*
ANGUS MCBRYDE, B.S., M.D., *Pediatrics.*
DANIEL FRANKLIN MILAM, A.B., M.P.H., M.D., *Preventive Medicine and Public Health.*
GEORGE JAY BAYLIN, A.B., M.D., *Radiology.*
JAMES EUGENE HEMPHILL, B.A., M.D., *Radiology.*
ROGER DENIO BAKER, A.B., M.D., *Pathology.*
†CYRUS CONRAD ERICKSON, B.S., B.M., M.D., *Pathology.*
DOUGLAS HAMILTON SPRUNT, B.S., M.S., M.D., *Pathology.*
HAYWOOD MAURICE TAYLOR, B.S., M.S., Ph.D., *Toxicology.*
THOMAS BUCKINGHAM COOLIDGE, B.A., Ph.D., M.D., *Biochemistry.*
†LINUS MATHEW EDWARDS, JR., D.D.S., *Dentistry.*

† On active duty; U. S. Army.
* On active duty; U. S. Navy.
‡ On leave of absence.

†Norman F. Ross, D.D.S., *Dentistry.*
†Leo Alexander, A.B., M.D., *Neuropsychiatry.*
*Raymond S. Crispell, A.B., M.D., *Neuropsychiatry.*
†Robert L. Garrard, A.B., M.S., B.S., M.D., *Neuropsychiatry.*
Maurice H. Greenhill, A.B., M.D., *Neuropsychiatry.*
Frederick Harrison Hesser, A.B., M.D., *Neuropsychiatry.*
Hans Löwenbach, M.D., *Neuropsychiatry.*
Robert Burke Suitt, M.D., *Neuropsychiatry.*
†Daniel Joseph Sullivan, M.D., *Neuropsychiatry.*
Charlotte Frisch Walker, M.D., *Neuropsychiatry.*

Resident Staff

Residents, 1942-1943

David Cayer, B.A. and M.D., Duke, 1935 and 1938; *Medicine.*
†Robert Nowell Creadick, B.A., Wesleyan, 1933; M.D., Yale, 1937; *Obstetrics and Gynecology.*
Clarence Daniel Davis, S.B., Massachusetts Institute of Technology, 1935; M.D., Johns Hopkins, 1939; *Endocrinology.*
Paul Henri Ducharme, B.S., Georgetown, 1933; M.D., Harvard, 1937; *Radiotherapy.*
Cyrus Leighton Gray, B.S., High Point, 1933; M.D., Duke, 1937; *Radiology.*
Frederick Harrison Hesser, A.B. and M.D., Johns Hopkins, 1933 and 1937; *Neuropsychiatry.*
†Alfred Faxon Henderson, A.B. and M.D., Duke, 1933 and 1937; *Urology.*
Harold Hunter Kuhn, B.S., A.B. and M.D., Duke, 1938 and 1940; *Orthopaedics.*
Durward Lee Lovell, M.D., Duke, 1936; *Surgery.*
Lester Henry Margolis, A.B., Johns Hopkins, 1936; M.D., Duke, 1940; *Neurology.*
Ray O. Noojin, A.B., Alabama, 1933; M.D., Chicago, 1937; *Dermatology and Syphilology.*
James Wilbur Sachs, B.S. and M.D., Duke, 1936 and 1938; *Otolaryngology and Ophthalmology.*
Thomas Gilbert Schnoor, B.S. and M.D., Duke, 1938 and 1939; *Otolaryngology and Ophthalmology.*
Gerald Campbell Walker, M.D. and C.M., Queens, 1935; *Pathology.*

Residents, 1943-1944

Robert Leonhardt Alter, M.D., Duke, 1938; *Obstetrics and Gynecology.*
John Mellichamp Fearing, B.S., Charleston, 1938; M.D., Duke, 1942; *Neuropsychiatry.*
George Gaylord Gilbert, B.S., Kenyon, 1934; M.D., Johns Hopkins, 1938; *Urology.*
Erastus Genair Goodman, Jr., M.D., Duke, 1940; *Hematology and Allergy.*
Harold Hunter Kuhn, B.S., A.B. and M.D., Duke, 1938 and 1940; *Orthopaedics.*
Charles W. Lloyd, A.B., Princeton, 1936; M.D., Rochester, 1941; *Endocrinology.*
George Margolis, A.B., Johns Hopkins, 1936; M.D., Duke, 1940; *Pathology.*
Lester Henry Margolis, A.B., Johns Hopkins, 1936; M.D., Duke, 1940; *Neurology.*
Ray O. Noojin, A.B., Alabama, 1933; M.D., Chicago, 1937; *Dermatology and Syphilology.*
Carney Cooper Pearce, Jr., M.D., Virginia, 1940; *Radiology.*
Ronald Edon Prindle, B.A., Rochester, 1935; M.D., New York, 1939; *Otolaryngology and Ophthalmology.*

† On active duty; U. S. Army.
* On active duty; U. S. Navy.

HARVEY NOBEL VANDEGRIFT, A.B., Delaware, 1938; M.D., Duke, 1942; *Pediatrics.*
KENNETH DURHAM WEEKS, B.S., Davidson, 1935; M.D., Duke, 1939; *Medicine.*
WARNER LEE WELLS, M.D., Duke, 1938; *Surgery.*

Assistant Residents, 1942-1943

ROBERT LEONHARDT ALTER, M.D., Duke, 1938; *Obstetrics and Gynecology.*
KENWARD OLIVER BABCOCK, A.B., Stanford, 1935; M.D., Duke, 1941; *Pathology.*
EDWARD PERRY BENBOW, JR., A.B., North Carolina, 1937; M.D., Duke, 1941; *Medicine.*
ISADORE NATHAN DUBIN, B.Sc., M.D. and C.M., McGill, 1935 and 1939; *Pathology.*
GLENN SONDERS EDGERTON, B.S., North Carolina, 1930; M.D., Temple, 1932; *Obstetrics and Gynecology.*
GEORGE GAYLORD GILBERT, B.S., Kenyon, 1934; M.D., Johns Hopkins, 1938; *Urology.*
MARGARET LOUISE GOETSCH, A.B., Chicago, 1936; M.D., Johns Hopkins, 1940; *Pediatrics.*
ERASTUS GENAIR GOODMAN, JR., M.D., Duke, 1940; *Medicine.*
JOHN ROBERT KERNODLE, A.B., Elon, 1935; M.D., Duke, 1942; *Pathology.*
GEORGE MARGOLIS, A.B., Johns Hopkins, 1936; M.D., Duke, 1940; *Pathology.*
ROBERT CLEVE NEILL, A.B. and M.A., California, 1935 and 1937; M.D., Duke, 1941; *Surgery.*
FRANCIS NICHOLSON, B.S. and M.D., Tulane, 1938 and 1941; *Surgery.*
ALBERT ARCHER PARRISH, A.B. and M.D., Duke, 1933 and 1938; *Urology.*
RONALD EDON PRINDLE, B.A., Rochester, 1935; M.D., New York, 1939; *Otolaryngology and Ophthalmology.*
ELIZABETH CATHERINE RANDELL, M.B., B.S., London, 1938; *Biochemistry.*
IRA STANLEY ROSS, A.B. and M.D., Duke, 1934 and 1938; *Neuropsychiatry.*
PAUL ERVIN SIMPSON, A.B. and M.D., Duke, 1936 and 1940; *Obstetrics and Gynecology.*
STEDMAN WEST SMITH, A.B., Brown, 1936; M.D.C.M., McGill, 1940; *Obstetrics and Gynecology.*
JOSIAH CHARLES TRENT, A.B., Duke, 1934; M.D., Pennsylvania, 1938; *Surgery.*
RICHARD BERESFORD TUDOR, A.B. and M.D., Minnesota, 1936 and 1941; *Pediatrics.*
LARRY TURNER, A.B. and M.D., Duke, 1935 and 1939; *Otolaryngology and Ophthalmology.*
KENNETH DURHAM WEEKS, B.S., Davidson, 1935; M.D., Duke, 1939; *Medicine.*
WARNER LEE WELLS, M.D., Duke, 1938; *Surgery.*
DAVID ALEXANDER WILSON, A.B., Wooster, 1932; M.A., Wesleyan, 1933; M.D., Ohio, 1938; *Surgery.*
JAMES MAZYCK WILSON, A.B., Princeton, 1933; M.D., South Carolina, 1937; *Obstetrics and Gynecology.*

Assistant Residents, 1943-1944

LEO MAX BASHINSKY, A.B. and M.D., Vanderbilt, 1939 and 1943; *Pediatrics.*
DONALD DE FOREST BAUER, A.B., Dartmouth, 1937; M.D.C.M. and M.Sc., McGill, 1942 and 1943; *Pathology.*
GEORGE ORION BOUCHER, A.B., California, 1938; M.D., Duke, 1942; *Pediatrics.*
ARTHUR B. CECIL, JR., A.B., Harvard, 1937; M.D., Johns Hopkins, 1942; *Surgery.*
JAMES WESLEY CLOWER, M.D., Georgia, 1940; *Otolaryngology and Ophthalmology.*
ISADORE NATHAN DUBIN, B.Sc., M.D. and C.M., McGill, 1935 and 1939; *Pathology.*

Arthur Howard Flower, Jr., A.B., Heidelberg, 1938; M.D., Duke, 1942; *Dermatology and Syphilology.*
David Watson Goddard, A.B. and M.D., Duke, 1936 and 1939; *Urology.*
Lucy Jane Gregory, A.B., Sweet Briar, 1938; M.D., Duke, 1943; *Obstetries and Gynecology.*
Howard Theodore Guare, M.D., Vermont, 1934; *Radiology.*
A. E. Handy, Jr., B.S., Virginia Polytechnic Institute, 1938; M.D., Virginia, 1943; *Radiology.*
Gameel Byron Hodge, B.S., Wofford, 1938; M.D., Vanderbilt, 1942; *Surgery.*
Charles Edward Kernodle, Jr., A.B., Elon, 1938; M.D., Duke, 1942; *Surgery.*
John Robert Kernodle, A.B., Elon, 1935; M.D., Duke, 1942; *Obstetrics and Gyneeology.*
Samuel Rea Kilgore, B.S., Citadel, 1938; M.D., Duke, 1943; *Neuropsyehiatry.*
Herbert Arthur King, A.B. and M.D., Duke, 1938 and 1942; *Medicine.*
John Albert Kneipp, A.B. and M.D., Duke, 1937 and 1943; *Neuropsyehiatry.*
Edward David Levy, B.A., Harvard, 1935; M.D., Duke, 1942; *Medicine.*
John Philip Loge, A.B., Redlands, 1939; M.D., Yale, 1943; *Medicine.*
David Jay McCulloch, M.D., Duke, 1943; *Pathology.*
Paul Robinson Massengill, A.B. and M.D., Duke, 1931 and 1943; *Otolaryngology and Ophthalmology.*
Robert Cleve Neill, A.B. and M.A., California, 1935 and 1937; M.D., Duke, 1941; *Surgery.*
Francis Nicholson, B.S. and M.D., Tulane, 1938 and 1941; *Surgery.*
John Frederick Ott, M.D., Duke, 1943; *Pediatrics.*
Albert Archer Parrish, A.B. and M.D., Duke, 1933 and 1938; *Urology.*
Mary Elizabeth Perry, A.B. and M.D., Tufts, 1936 and 1940; *Pediatrics.*
William Anthony Peters, Jr., A.B. and M.D., Duke, 1939 and 1942; *Obstetrics and Gynecology.*
James Franklin Reinhardt, B.S., Davidson, 1938; M.D., Duke, 1942; *Medicine.*
Max Pritchard Rogers, A.B., High Point, 1938; M.D., Duke, 1942; *Surgery.*
Paul Ervin Simpson, A.B. and M.D., Duke, 1936 and 1940; *Obstetrics and Gyneeology.*
Stedman West Smith, A.B., Brown, 1936; M.D.C.M., McGill, 1940; *Obstetrics and Gynecology.*
Harlan Aljean Stiles, B.S., North Central, 1933; M.D., Duke, 1942; *Othopaedics.*
Kearns Reid Thompson, Jr., A.B. and M.D., Duke, 1939 and 1942; *Orthopaedies.*
Josiah Charles Trent, A.B., Duke, 1934; M.D., Pennsylvania, 1938; *Surgery.*
Larry Turner, A.B. and M.D., Duke, 1935 and 1939; *Otolaryngology and Ophthalmology.*
Violet Horner Turner, B.A., Hawaii, 1936; M.D., Chicago, 1940; *Obstetrics and Gyneeology.*
Prentiss Willson, Jr., M.D., Duke, 1941; *Obstetrics and Gyneeology.*
David Alexander Wilson, A.B., Wooster, 1932; M.A., Wesleyan, 1933; M.D., Ohio, 1938; *Surgery.*
James Mazyck Wilson, A.B., Princeton, 1933; M.D., South Carolina, 1937; *Obstetrics and Gyneeology.*

Interns, 1942-1943

Leo Max Bashinsky, A.B. and M.D., Vanderbilt, 1939 and 1943; *Pediatrics.*
George Orion Boucher, A.B., California, 1938; M.D., Duke, 1942; *Obstetries and Pediatries.*
†Walter Ellis Bryant, B.S., Newberry, 1938; M.D., Duke, 1942; *Pediatrics.*
John Mellichamp Fearing, B.S., Charleston, 1938; M.D., Duke, 1942; *Neuropsyehiatry.*
James Monroe Fisher, A.B., Miami, 1938; M.D., Johns Hopkins, 1942; *Pediatries.*

† On active duty; U. S. Army.

H. QUIGG FLETCHER, A.B., Vanderbilt, 1938; M.D., Johns Hopkins, 1942; *Surgery.*
ARTHUR HOWARD FLOWER, JR., A.B., Heidelberg, 1938; M.D., Duke, 1942; *Medicine.*
JOSEPH ARMISTEAD FORD, JR., A.B., Virginia Military Institute, 1937; M.D., Duke, 1942; *Neuropsychiatry.*
WILLIAM HARRISON HIGGINS, III, B.S., Davidson, 1937; M.D., Johns Hopkins, 1942; *Medicine.*
GAMEEL BYRON HODGE, B.S., Wofford, 1938; M.D., Vanderbilt, 1942; *Surgery.*
*HERBERT DAVID KERMAN, A.B. and M.D., Duke, 1938 and 1942; *Medicine.*
CHARLES EDWARD KERNODLE, JR., A.B., Elon, 1938; M.D., Duke, 1942; *Surgery.*
SAMUEL REA KILGORE, B.S., Citadel, 1938; M.D., Duke, 1943; *Neuropsychiatry.*
HERBERT ARTHUR KING, A.B., Richmond, 1939; M.D., Duke, 1943; *Medicine.*
JOHN ALBERT KNEIPP, A.B. and M.D., Duke, 1937 and 1943; *Neuropsychiatry.*
BEATRICE HART KUHN, B.A., Swarthmore, 1939; M.D., Duke, 1942; *Medicine.*
†FRANK LEDESMA-DIAZ, B.S., Catholic, 1938; M.D., Duke, 1942; *Pediatrics.*
WILLIAM FORREST LEE, JR., A.B., Dartmouth, 1939; M.D., Rochester, 1942; *Surgery.*
EDWARD DAVID LEVY, B.A., Harvard, 1935; M.D., Duke, 1942; *Medicine.*
JOHN PHILIP LOGE, A.B., Redlands, 1939; M.D., Yale, 1943; *Medicine.*
*KENNETH MERRILL LYNCH, JR., A.B., Princeton, 1938; M.D., Johns Hopkins, 1942; *Surgery.*
DAVID JAY MCCULLOCH, M.D., Duke, 1943; *Surgery.*
BRITA ROSENQUIST MCLEAN, B.S., Pittsburgh, 1938; M.D., Duke, 1942; *Medicine.*
I. WILLIAM MCLEAN, JR., B.S., Davidson, 1938; M.D., Duke, 1942; *Pediatrics.*
PAUL ROBINSON MASSENGILL, A.B. and M.D., Duke, 1931 and 1942; *Otolaryngology and Ophthalmology.*
JOSEPH EDGAR MERRITT, JR., M.D., Chicago, 1942; *Medicine.*
MURIEL MEYERS, A.B., Hood, 1937; M.D., Duke, 1941; *Medicine.*
†DAVIS DELEON MOISE, M.D., Duke, 1942; *Surgery.*
†FRANK THEODORE MORAN, B.A., Vanderbilt, 1938; M.D., Duke, 1942; *Surgery.*
JOHN FREDERICK OTT, M.D., Duke, 1943; *Pediatrics.*
JAMES FRANKLIN REINHARDT, B.S., Davidson, 1938; M.D., Duke, 1942; *Medicine.*
†ROBERT ALFRED GREER RICKETSON, A.B., Vanderbilt, 1938; M.D., Duke, 1942; *Surgery.*
MAX PRITCHARD ROGERS, A.B., High Point, 1938; M.D., Duke, 1942; *Surgery.*
HOWARD JAMES SCHAUBEL, A.B., Hope, 1938; M.D., Michigan, 1942; *Orthopaedics.*
RICHARD HOPKINS SINDEN, M.D., Duke, 1942; *Medicine.*
GARDNER FORD SMART, B.S. and M.D., Duke, 1937 and 1941; *Otolaryngology and Ophthalmology.*
HELEN STARKE, A.B. and M.D., Duke, 1938 and 1942; *Medicine.*
HARLAN ALJEAN STILES, B.S., North Central, 1938; M.D., Duke, 1942; *Orthopaedics.*
JOHN MATHER STREET, B.A., Yale, 1938; M.D., Duke, 1942; *Surgery.*
ARCHIE REID SUTHERLAND, A.B. and M.D., Duke, 1940 and 1943; *Medicine.*
RALPH GORDON TEMPLETON, M.D., Duke, 1942; *Obstetrics and Pediatrics.*
KEARNS REID THOMPSON, JR., A.B. and M.D., Duke, 1939 and 1942; *Medicine.*
HARVEY NOBEL VANDEGRIFT, A.B., Delaware, 1938; M.D., Duke, 1942; *Pediatrics.*
GARLAND ODELL WELLMAN, M.D., Duke, 1942; *Surgery.*
*RICHARD BIDGOOD WHITAKER, M.D., Duke, 1941; *Neuropsychiatry.*
†WALTER F. WHITT, JR., A.B., Catawba, 1938; M.D., Duke, 1942; *Obstetrics and Pediatrics.*
PRENTISS WILLSON, JR., M.D., Pennsylvania, 1941; *Obstetrics and Gynecology.*

* On active duty; U. S. Navy.
† On active duty; U. S. Army.

Interns, 1943-1944

Albert Jerviss Alter, A.B., Yale, 1940; M.D., Duke, 1943; *Medicine.*
Ralph Parr Baker, M.D., Duke, 1943; *Surgery.*
Annie Bestebreurtje, M.D., Johns Hopkins, 1943; *Pathology.*
George Gordon Culbreth, A.B. and M.D., Duke, 1940 and 1943; *Surgery.*
Alan Davidson, A.B., Dartmouth, 1939; M.D., Vermont, 1943; *Surgery.*
Pierson Presbuy Deming, A.B., Washington, 1940; M.D., Tennessee, 1943; *Pathology.*
Charles Kendall Donegan, M.D., Duke, 1943; *Medicine.*
William McCoy Eagles, A.B. and M.D., Duke, 1940 and 1943; *Surgery.*
John Capers Glenn, M.D., Duke, 1943; *Surgery.*
Albert Paul Glod, B.S., Wake Forest, 1940; M.D., Bowman-Gray, 1943; *Obstetrics and Gynecology.*
Lawrence Elliott Gordon, Jr., A.B., Emory and Henry, 1939; M.D., Duke, 1943; *Obstetrics and Pediatrics.*
Emil Joseph Graham, M.D., Duke, 1943; *Surgery.*
Walter Gordan Hackett, B.A., Vanderbilt, 1939; M.D., Duke, 1943; *Medicine.*
John Roland Harvin, A.B., Charleston, 1939; M.D., South Carolina, 1943; *Pediatrics.*
Robert Francis Heimburger, B.S., Drury, 1939; M.D., Vanderbilt, 1943; *Surgery.*
Eleanor Jane Herring, M.D., Duke, 1943; *Pediatrics.*
Harry Vance Hendrix, A.B., Davidson, 1940; M.D., Johns Hopkins, 1943; *Surgery.*
William F. Hillier, Jr., A.B., Boston, 1938; M.D., Yale, 1943; *Surgery.*
Eugene Leroy Horger, Jr., A.B. and M.D., Duke, 1940 and 1943; *Medicine.*
Henry Lee Howard, M.D., Duke, 1943; *Pathology.*
Lalla Iverson, B.S. and M.D., Johns Hopkins, 1940 and 1943; *Pathology.*
Edmund Parsons Jones, Jr., B.A. and M.D., Texas, 1940 and 1943; *Pediatrics.*
Robert Greene Jordan, Jr., M.D., Vanderbilt, 1943; *Pediatrics.*
John Frederick Kramer, A.B. and M.D., Michigan, 1940 and 1943; *Pediatrics.*
William Edward Leeper, Jr., M.D., Duke, 1943; *Medicine.*
Albert Johnson Mace, A.B. and M.D., Johns Hopkins, 1939 and 1943; *Surgery.*
James Roberts McShane, A.B. and M.D., Johns Hopkins, 1939 and 1943; *Surgery.*
Jack Harrell Neese, A.B., Elon, 1939; M.D., Duke, 1942; *Surgery.*
Kenneth Harrington Oakley, B.S., Illinois, 1924; M.D., Michigan, 1943; *Otolaryngology and Ophthalmology.*
Arthur Francis O'Keeffe, B.A., Johns Hopkins, 1939; M.D., Duke, 1943; *Surgery.*
Keith Millner Oliver, B.S., Virginia Polytechnic Institute, 1933; M.D., Duke, 1943; *Obstetrics and Pediatrics.*
John Dickinson Peck, B.A., Virginia Polytechnic Institute, 1939; M.D., Duke, 1942; *Obstetrics and Gynecology.*
Victor Anthony Politano, B.S., Marshall, 1940; M.D., Duke, 1943; *Medicine.*
Jack Clifford Postlewaite, A.B. and M.D., Vanderbilt, 1941 and 1943; *Surgery.*
Raymond Crawford Ramage, B.S., Florida, 1940; M.D., Duke, 1943; *Surgery.*
Stanfield Rogers, M.D., Duke, 1944; *Pathology.*
Robert Emmet Seibels, Jr., B.A., University of the South, 1940; M.D., Duke, 1943; *Medicine.*
John Arthur Segerson, A.B., Holy Cross, 1940; M.D., Rochester, 1943; *Medicine.*
William Warner Shingleton, A.B., Atlantic-Christian, 1939; M.D., Bowman-Gray, 1943; *Surgery.*

WILLIAM VANCE SINGLETARY, A.B., North Carolina, 1940; M.D., Duke, 1943; *Medicine.*
GEORGE WASHINGTON FREEMAN SINGLETON, M.D., Duke, 1943; *Medicine.*
WALTER SPAETH, JR., M.D., Duke, 1943; *Medicine.*
SAMUEL RICHARD STAGGER, A.B., Mississippi, 1940; M.D., Vanderbilt, 1943; *Surgery.*
HARRY FRANCIS STEELMAN, A.B., Lenoir-Rhyne, 1939; M.D., Duke, 1943; *Surgery.*
LELAND D. STODDARD, M.D., Johns Hopkins, 1943; *Pathology.*
DONALD GORDON STROLE, M.D., Vanderbilt, 1943; *Medicine.*
ROBERT JAMES VANDERLINDE, M.D., Duke, 1943; *Medicine.*
CLYDE WHITLEY VICK, JR., A.B., West Virginia, 1939; Johns Hopkins, 1943; *Surgery.*
JOHN JOSEPH WEBER, B.A., Duke, 1939; M.D., Yale, 1943; *Medicine.*
JAMES MCLEAN WILSON, M.D., Duke, 1943; *Obstetrics and Pediatrics.*
ERNEST HUGH YELTON, B.S., North Carolina, 1939; M.D., Cornell, 1943; *Surgery.*
JOSEPH JAMES ZAVERTNIK, A.B. and M.D., Johns Hopkins, 1940 and 1943; *Surgery.*

COMMITTEES OF THE SCHOOL OF MEDICINE

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† On active duty; U. S. Army.
* On active duty; U. S. Navy.

REGIONAL REPRESENTATIVES OF THE COMMITTEE ON ADMISSION

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San Francisco, California	Charles H. Danforth
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New Haven, Connecticut	Allen K. Poole
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Atlanta, Georgia	James E. Paullin
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Iowa City, Iowa	Philip C. Jeans
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Louisville, Kentucky	S. I. Kornhauser
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Baltimore, Maryland	George W. Corner
Boston, Massachusetts	†Marshall N. Fulton
Boston, Massachusetts	John A. V. Davies
Detroit, Mich.	Roy D. McClure
Minneapolis, Minnesota	Angus W. Morrison
Kansas City, Missouri	Ralph H. Major
St. Louis, Missouri	Hugh McCulloch
Butte, Montana	Caroline McGill
New York, New York	Leonard T. Davidson
New York, New York	Lawrence S. Kubie
New York, New York	James B. Murphy
New York, New York	Bertram J. Sanger
Rochester, New York	William S. McCann
Syracuse, New York	Philip B. Armstrong
Davidson, North Carolina	John W. MacConnell
Cleveland, Ohio	B. S. Kline
Columbus, Ohio	Charles A. Doan
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Toledo, Ohio	John L. Stifel
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Tulsa, Oklahoma	Fred Y. Cronk
Portland, Oregon	Karl H. Martzloff
Johnstown, Pennsylvania	W. Frederic Mayer
Palmerton, Pennsylvania	R. P. Batchelor
Philadelphia, Pennsylvania	John T. Bauer
Pittsburgh, Pennsylvania	Davenport Hooker
Scranton, Pennsylvania	George A. Clark
Charleston, South Carolina	†Edward F. Parker, Jr.
Charleston, South Carolina	J. I. Waring
Columbia, South Carolina	William Weston
Columbia, South Carolina	James H. Gibbes
Chattanooga, Tennessee	†Richard Van Fletcher
Memphis, Tennessee	Raphael E. Semmes
Nashville, Tennessee	Sam L. Clark
Sewanee, Tennessee	Henry T. Kirby-Smith
Fort Worth, Texas	Khleber H. Beall
San Antonio, Texas	P. I. Nixon
Salt Lake City, Utah	Alfred J. Ridges
Charlottesville, Virginia	Henry B. Mulholland
Richmond, Virginia	I. A. Bigger
Roanoke, Virginia	Hugh H. Trout
Seattle, Washington	R. D. Forbes
Spokane, Washington	E. Rex Speelmon
Huntington, West Virginia	*George M. Lyon
Huntington, West Virginia	R. M. Wylie
Madison, Wisconsin	Walter E. Sullivan

* On active duty; U. S. Navy.
† On active duty; U. S. Army.

GENERAL STATEMENT

Duke University School of Medicine and Duke Hospital were established in 1925, through the munificent gift of the late James B. Duke. The *School of Medicine* has been planned to insure the greatest correlation between the various departments. These facilities are available also for students who are studying for degrees other than that of Doctor of Medicine. The School of Medicine has been approved as Class A by the American Medical Association and is also a member of the Association of the American Medical Colleges. On January 3, 1944, three hundred and two students were enrolled.

FACILITIES OF THE HOSPITAL

Duke Hospital has every modern convenience for the diagnosis, proper care, welfare and comfort of the patients, both private and charity, white and colored, whether they come from Durham or from a distance. It has 604 beds, including 50 bassinets for newly born infants. *Medicine*, including dermatology and neurology, has 75 ward beds; *surgery*, including urology, otolaryngology, ophthalmology, and orthopaedics, 143 ward beds; *obstetrics*, including *gynecology*, 56, and 50 bassinets; *neuropsychiatry*, 23; and *pediatrics*, 52. There are 205 private rooms and semiprivate cubicles, 7 air-conditioned operating rooms, and 4 obstetric delivery rooms. Offices and examining rooms for the members of the Medical Faculty are located in the Hospital. The Hospital has been approved for internships and residencies by the Council on Medical Education and Hospitals of the American Medical Association.

Duke Hospital and its Public Dispensary were opened for patients on July 21, 1930. Two hundred and eight thousand, five hundred individuals have been examined, diagnosed, and treated up to June 30, 1943. The average daily census of hospital patients is 425; 82,531 visits were made to the Public Dispensary during the past year. Fiften per cent of the patients come from within a radius of twenty miles, the remaining 85 per cent come from the other 99 counties in North Carolina and from 27 other states and 3 foreign countries. The average distance traveled by the patients is more than seventy miles.

Every effort is being made to co-operate with the medical profession, and patients are asked to return to the physicians who referred them to the Hospital and Clinic.

Public Ward Patients. Duke Hospital cannot give charity treatment to all who apply; therefore, patients whose incomes are less than $15 per week should apply to the Public Dispensary Division of the Duke Clinic on the days and hours listed below. The hospital fee consists of four classes of flat daily rates (private, semiprivate, semicharity, and charity), which cover all hospital costs, including those usually charged as extras, thereby making it possible to estimate, in advance, the probable cost of

hospitalization and to adjust the bill to the patient's resources. This policy of basing the rate upon the amount the patient can pay, rather than on the actual cost, has enabled many, who, under the former system, unnecessarily were objects of charity, to maintain their self-respect by contributing a fixed sum within their means. The actual cost to the Hospital for public care is over $6.00 daily; but in order to meet the greatly increased demand for charity work, Duke Hospital adopted the co-operative plan of paying half the cost, provided the patient's local welfare department co-operated by paying the other half. This is in accordance with Mr. Duke's plan that the communities share, with the Duke Endowment, the burden of charity patients, instead of either carrying all of it. Although 63 per cent of the patients pay less than cost, the revenue from patients, their friends, the counties, and the Duke Endowment provides approximately half of their expenses. By having every patient contribute in accordance with his means, the balance, which Duke Hospital gives in charity or less than cost service, has been spread over a large number of people. Instead of giving complete and pauperizing charity care to four thousand patients, the Hospital has been able to assist approximately thirteen thousand individuals annually to obtain medical care for which they could not pay the full cost.

PUBLIC DISPENSARY DIVISION OF THE DUKE CLINIC. The general policy of admitting patients to the Public Dispensary and Wards is to consider carefully their financial and social status; income and size of family, special responsibilities, and the probable cost of treatment, all being weighed in determining admission. A married patient, for instance, with an income of less than $15 per week is considered admissible to the Public Wards or Public Dispensary for ordinary conditions; the income limit, of course, varying according to the other factors which affect the patient's financial status. Those who are able to pay the ordinary fees of consultants and specialists are not admitted to the Public Dispensary, but may make arrangements through their own physicians for examinations by any member of the Hospital Staff or in the Private Diagnostic Clinic.

SCHEDULE OF THE PUBLIC DISPENSARY DIVISION OF THE DUKE CLINIC. Closed on Saturdays, Sundays, and holidays. Patients must register at the times listed. Appointments should be made in advance.

Registration hours: 12:00 M., unless otherwise noted below.

General Medicine General Surgery Neurosurgery Obstetrics and Gynecology (Women's Diseases) Children's Diseases† Neuropsychiatry Skin Diseases Eye Ear, Nose, and Throat Bone and Joint Diseases Tumors Urinary and Kidney Diseases	*Monday, Tuesday, Wednesday, Thursday, and Friday.*

† Also at 9 A.M.

Dentistry: *Monday at 12:00 M.*

Cystoscopy: *Monday, Wednesday, and Thursday.**

Syphilis: *Thursday, Children at 9:00 A.M. and Adults at 6:00 P.M.**

Asthma and Hay Fever
Diabetes
} *Tuesday at 9:00 A.M.**

Infant Feeding
Fracture
} *Friday at 9:00 A.M.**

Pneumothorax (chest and tubercular): *Thursday at 9:00 A.M.**

Endocrine (sterility, menstrual disorders, etc.): *Tuesday, Wednesday, and Thursday at 8:30 A.M.-12:00 M.**

Hematology (diseases of the blood): *Monday at 1:00 P.M.**

Bronchoscopy: *Monday at 9:00 A.M.**

Neurology: *Wednesday at 9:00 A.M.**

The Public Dispensary charge is from $3.00 to $5.00 for the first visit to any department, plus the actual cost of x-rays and other materials used. For the return visits to the regular clinics, the rate is from fifty to seventy-five cents for consultation or completion of examination; and $2.00 for patients who have not been instructed to return, but who do so on their own initiative. In order to co-operate with the medical profession, anyone who wishes to attend the Public Dispensary should consult, and bring a letter from, his or her own physician. Delay will be avoided if appointments are made in advance.

Private Patients. Patients who can pay the ward and private rates may at any time, through their family physicians, in consultation with any member of the Hospital Staff, make reservations by telephoning to the Admitting Office. Appointments for private examinations and treatments may be made in advance by telephoning to members of the Hospital Staff or to the Private Diagnostic Division of the Duke Clinic.

Private Diagnostic Division of the Duke Clinic. This division was organized to co-ordinate the diagnostic studies, and to give better care for the complicated problems arising in the examinations of private patients. The Clinical Staff of Duke Hospital and School of Medicine forms the professional staff of this clinic, while the financial side is handled by a business manager. The offices and examining rooms are in Duke Hospital, and all the laboratory and diagnostic facilities of the Hospital and School of Medicine are utilized by the Clinic. A complete diagnostic survey usually requires from one to four days, and the charges generally range from $15 to $75, the amount depending on the work required and on the financial condition of the patient. As soon as each examination has been completed, a full report describing the results of the diagnostic studies is forwarded to the physician who referred the patient.

* By previous appointment only.

SCHOOL OF NURSING

MARGARET I. PINKERTON, B.S., R.N., *Dean of the School of Nursing and Professor of Nursing.*
MATILDA E. H. MOSELEY, A.B., R.N., B.S., *Acting Assistant Professor of Nursing Education.*
†JULIA E. WHITE, A.B., R.N., *Assistant to the Dean.*
VERA T. MCCULLOCH, R.N., *Assistant to the Dean.*
PAULINE A. MARTIN, R.N., *Assistant to the Dean.*

The next class of students will be admitted to the Duke University School of Nursing on September 29, 1944, but applications will be considered at any time. A pre-nursing class will be admitted July 3, 1944. Further information about the entrance and other requirements, length of course, tuition fees, application forms, and bulletins may be obtained by writing to the Dean of the School of Nursing, Duke University, Durham, N. C.

SCHOOL OF DIETETICS

ELSIE W. MARTIN, A.B., M.S., *Professor of Dieteties.*
JANE HEREFORD, B.S., *Administrative Dietitian.*
CARLINE MILLICAN, B.S., *Therapeutie Ward Dietitian.*
PHYLLIS BAUER, B.S., *Therapeutie Dietitian.*
EDITH WESTCOTT ELONKA, B.S., *Administrative Dietitian.*
MARY RUTH BIBB, B.S., *Assistant Therapeutie Ward Dietitian.*
JEAN FOX, B.S., *Assistant Administrative Dietitian.*
SARA SUTHERLAND, B.S., *Assistant Administrative Dietitian.*

In addition to the training of medical students and nurses in dietetics, ten student dietitians may be admitted to the School of Dietetics and given the certificate of graduate dietitian after the successful completion of one year. The entrance requirements are a Bachelor's degree from an approved university or college, with majors in nutrition and institutional management, and the courses in chemistry, biology, social science, and education recommended by the American Dietetic Association. The course for student dietitians provides instruction in all phases of hospital and institutional dietetics, including experience from the buying and storage of food to its service to the patients according to the physician's orders. In addition, if applying for graduate credit, they will be required to complete the courses in biochemistry, nutrition, and selected portions of physiology as given to the medical students.

More detailed information and application blanks may be obtained from the Professor of Dietetics, Duke University School of Dietetics, Durham, N. C. The course starts the first of July and the first of September. If a student receives advanced credit, a tuition fee of $50 is charged. All students pay a registration fee of $10 at the time of appointment; maintenance is provided.

HOSPITAL ADMINISTRATION

F. V. ALTVATER, A.B., A.M., *Superintendent.*
F. R. PORTER, A.B., *Assistant Superintendent.*
H. C. MICKEY, B.B.A., *Assistant Superintendent.*
R. T. HOLMES, A.B., *Assistant Superintendent.*

† On active duty; U. S. Army.

De Witt Wright, B.S., J.D., *Night Superintendent.*
Marjorie G. Ross, A.B., *Personnel Officer.*
C. H. Cobb, Ph.G., *Business Manager, Medical Division.*
Mildred B. Burch, *Assistant Business Manager, Medical Division.*
E. S. Raper, A.B., *Business Manager, Surgical Division.*
H. H. Pethick, A.B., *Assistant Business Manager, Surgical Division.*
†J. Kent Davis, A.B., *Assistant in Administration.*
†George Bokinsky, A.B., *Assistant in Administration.*
†J. G. Brothers, A.B., *Assistant in Administration.*
†S. O. Gilmer, A.B., *Assistant in Administration.*
D. F. Peterson, *Assistant in Administration.*

After the war four internships in hospital administration leading to a certificate will again be available to university graduates whose character, tact, and ability for leadership are good, and whose academic standing is high. These internships are of three years' duration and pay a small salary in addition to room, board, and laundry. Vacations of two weeks are allowed at the beginning of the second and third years of internship.

The instruction is practical rather than theoretical in emphasis. The interns are rotated through five different assistant administrative positions in the Hospital. There is also a weekly seminar lasting two hours.

During these three years, the interns also register in the Graduate School of Duke University, and receive the A.M. degree after the successful completion of a thesis and twenty-four semester hours of University courses in various fields. Further information may be obtained by writing to the Superintendent, Duke Hospital, Durham, N. C.

COURSE IN LABORATORY TECHNIQUE

David T. Smith, A.B., M.D., *Professor of Bacteriology.*
Haywood M. Taylor, B.S., M.S., Ph.D., *Associate Professor of Biochemistry.*
Oscar C. E. Hansen-Prüss, A.B., M.D., *Associate Professor of Medicine.*
Donald S. Martin, A.B., M.D., *Associate Professor of Bacteriology and Mycology.*

The course in laboratory technique includes training in blood chemistry, clinical microscopy, bacteriology, serology, basal metabolism, and histopathological technique. The course, which is approved by the Registry of Technicians of the American Society of Clinical Pathologists, lasts eighteen months. A new class will be admitted every nine months on the same dates that each class of first-year medical students is admitted. Two years of college work are required with credits in biology or zoology, and inorganic, analytical and organic chemistry. The registration fee is $75, and there are no additional charges, except for breakage. The students live in town at their own expense. Applications may be sent to Dr. David T. Smith, Duke Hospital, Durham, N. C.

ANESTHESIA

Mary H. Snively, R.N., Anes., *Instructor in Anesthesia.*
Alice R. Richards, R.N., *Instructor in Anesthesia.*
A. Dorothea Sheppard, R.N., *Instructor in Anesthesia.*
A. Frances Rowland, R.N., *Assistant in Anesthesia.*
Mary B. Campbell, R.N., *Assistant in Anesthesia.*

† On active duty; U. S. Army

A twelve months' postgraduate course in anesthesia is offered to six registered nurses each year. Students are accepted upon individual qualifications each January 15, April 15, July 15, and October 15. The tuition fee of $100 covers all necessary expenses including maintenance.

The training includes two hundred hours of theory and the practical application of all drugs and techniques in modern usage. A graduate of this course is eligible for membership in the American Association of Nurse Anesthetists. Application for appointment may be sent to Miss Mary H. Snively, Duke Hospital, Durham, N. C.

MEDICAL SOCIAL SERVICE

RUTH E. BARKER, A.B., M.S., *Instructor in Medical Social Service.*
MARY C. BOWERS, A.B., M.S., *Assistant in Medical Social Service.*
RHODA W. CLOUGH, A.B., B.S., M.S., *Assistant in Medical Social Service.*
MAUDE MCCRACKEN, A.B., M.S., *Assistant in Medical Social Service.*

Medical Social case-work service is offered to patients referred by personnel within the Hospital, and by interested individuals and health and welfare agencies outside of the Hospital. Assistance and advice in connection with the problems presented are available to the members of the Staff and referring agencies.

The department assists in teaching social aspects of illness and medical care through consultations and lectures to the various students within the Duke Medical and Nursing Schools. It also serves as an agency for supervised field work for students of the Graduate School of the University of North Carolina. Further information concerning training for advanced students may be obtained from the Social Service Department, Duke Hospital, Durham, N. C.

RECORD LIBRARY

JESSIE HARNED, R.R.L., *Medical Record Librarian*

A course for the training of medical record librarians, which has been given full approval by the American Association of Medical Record Librarians, and the American Medical Association, includes all details of the theory and practice of clinical record library methods. The length of the training is twelve months. The tuition fee is $100 and does not include maintenance. Applications may be made to the Medical Record Librarian, Duke Hospital, Durham, N. C.

PHYSICAL THERAPY

LENOX D. BAKER, M.D., *Chairman of Committee on Physical Therapy.*
HELEN LOUISE KAISER, R.P.T.T., *Instructor in Physical Therapy, in Charge of Division of Physical Therapy.*
MARY C. SINGLETON, B.S., R.P.T.T., *Assistant in Physical Therapy.*
MIRIAM B. KILLAM, P.T., *Assistant in Physical Therapy.*
EDNA HENLEY MAN, B.S., R.P.T.T., *Assistant in Physical Therapy.*
STELLA W. ROEBUCK, B.M., *Assistant in Physical Therapy.*

Ten students may be admitted to each class and given a certificate of graduation after the successful completion of the course. For the dura-

tion of the war the training will consist of nine months. The course is open to men and to women. The curriculum provides instruction in anatomy, physiology, kinesiology, pathology, psychology, electrophysics, neuropsychiatry, and practical pathology. Instruction in the clinical subjects will be given by members of the faculty of the Duke University School of Medicine. Practical training will be given at Duke Hospital and affiliated institutions and includes supervision of orthopaedic problems in the Durham Public Schools. In addition to the training of physical therapy students, courses are given to members of the nursing school and to the medical students. The tuition fee is $200. For further information and for application blanks write to Miss Helen L. Kaiser, Duke Hospital, Durham, N. C.

POSTGRADUATE STUDY

The School of Medicine is not limited to the training of its own students and Staff, but extends to the members of the medical profession the benefit of everything it has. Graduates in medicine are welcomed especially at the various clinics and demonstrations in medicine, surgery, obstetrics, and other specialties, which are held from 9 A.M. to 12:30 P.M. each Saturday and at the clinical-pathological conferences at 5 P.M. on Fridays. Postgraduate internships for one or two weeks are available to physicians in practice. No fees are charged; room and board can be obtained for $20 per week. Further information may be obtained by writing to the head of the department concerned or to the Dean.

INTERNSHIPS AND RESIDENCIES

Internships of nine months' duration with room, board, laundry, and uniforms furnished, but without salary, are available in *medicine, surgery* (including general surgery, urology, and orthopaedics), *orthopaedics, urology, otolaryngology-ophthalmology, dentistry, obstetrics and gynecology, endocrinology, pediatrics, neuropsychiatry,* and *pathology,* commencing January 1, October 1, 1944, and July 1, 1945.

Application blanks for all internships, which must be returned at least three months before the beginning of the internship desired, may be obtained by writing to the Superintendent, Duke Hospital, Durham, N. C. Graduates of any Class A medical school are eligible for internships.

After the completion of an internship in Duke Hospital or in another acceptable hospital, a certain number may be appointed as assistant residents in medicine, surgery, obstetrics and gynecology, pediatrics, psychiatry, neurology, dermatology, orthopaedics, urology, otolaryngology, ophthalmology, roentgenology, pathology, biochemistry, or the Student Health Service, or as fellows of the Private Diagnostic Clinic, at a salary of $250 to $500 per year with maintenance, and eventually may be promoted to the residency in the various departments or subdepartments of the Hospital at an annual salary of $500 to $1,000 with maintenance. Applications should be made to the head of the department concerned.

The Hospital and School of Medicine are an integral part of the Duke University campus, and its educational, recreational, and athletic facilities are available for the Resident Staff.

The Resident Staff of one hundred and eight consists of a resident, eight assistant residents, and thirteen interns in *medicine;* a resident in *neurology;* a resident in *dermatology and syphilology;* three assistant residents on the *Private Medical Service;* two assistant residents on the *Student Health Service;* a resident, two assistant residents, and an intern in *neuropsychiatry;* a resident, eight assistant residents, and twelve interns in *surgery* (the eight assistant residents are assigned in rotation to *general surgery, orthopaedics,* and *pathology*) ; two residents, an assistant resident, and three interns in *otolaryngology and ophthalmology;* a resident, an assistant resident, and an intern in *orthopaedics;* a resident, an assistant resident, and an intern in *urology;* an intern in *dentistry;* a resident, four assistant residents, and two interns in *obstetrics and gynecology;* four interns in *obstetrics and pediatrics;* a resident, assistant resident, and an intern in *endocrinology;* three assistant residents and six interns in *pediatrics;* a resident and two assistant residents in *radiology;* three assistant residents and four interns in *pathology;* two assistant residents in *biochemistry;* four interns in *administration;* two interns in *pharmacy.*

LIBRARY

JUDITH FARRAR, A.B., B.S., *Librarian.*
MILDRED PERKINS FARRAR, *Assistant Librarian.*

"To study the phenomena of disease without books is to sail an uncharted sea, while to study books without patients is not to go to sea at all."—SIR WILLIAM OSLER.

In addition to the General Library of Duke University and the departmental libraries of biology, chemistry, physics, etc., which have 641,809 volumes available for medical students, Duke Hospital Library contains 40,286 volumes of American and foreign medical literature and subscribes to 425 current American and foreign medical and other scientific journals. These books and journals are available daily from 8:30 A.M. to 11:00 P.M. for the students, nurses, Staff, and medical profession.

MEDICAL CARE

JOSEPH A. SPEED, *Physician in Charge.*

With the exceptions noted below, full medical and surgical care is furnished to all regularly matriculated medical students of the University for the health fee of $3.33 per quarter. This service is under the direction of the Physician in Charge with the co-operation of the Staff of Duke Hospital. It includes hospitalization (limited to thirty days), medical and surgical care, drugs, dressings, x-ray studies, and ward but not special nursing. A charge for board is made at the same rate as in the University dining halls, and student meal tickets for these halls are accepted in payment of this board. Refraction of eyes and treatment of teeth and of all chronic and pre-existing conditions, such as diseased tonsils, hernias, elective surgery, chronic skin conditions, endocrine disturb-

ances, etc., or accidents or illnesses occurring during vacations or while off the campus, are not included in this service. The cost of any necessary braces and orthopaedic appliances, as well as of special nursing, must be borne by the student.

STUDENT GOVERNMENT

The members of the student body elect an Honor Council, in which each class is represented. It is the duty of the Honor Council to hear all cases involving breaches of conduct on the part of members of the student body. All new students entering the School are required to comply with this system of government.

THE DUKE UNIVERSITY MEDICAL SOCIETY

This society was organized to facilitate the presentation of current medical problems before the students, Staff, and other interested persons in the University and professional community. Meetings are held monthly during the academic year, and the programs usually consist of short case presentations and discussions followed by a description of some Staff or student research project. Occasionally guest speakers from other institutions are invited to participate in the programs.

APPLICATION FOR ADMISSION

Application forms may be obtained by writing to the Committee on Admission, Duke University School of Medicine, Durham, N. C. If further information is required after the Committee has studied the completed application, a personal interview with the Committee on Admission or a Regional Representative is arranged for the applicant. The candidate then is notified as soon as possible whether he has been accepted or declined; if accepted, he must send a deposit of $50 within two weeks to insure enrollment. This money is applied toward the tuition. During the war a first-year class will be admitted every nine months, i.e., January 3, 1944, October 2, 1944, and July 2, 1945, etc. Applications should be submitted at least six months before the opening date. The number of students in each class is limited to 76, but only those students will be accepted who give promise of being a credit to the School and the medical profession. Women are received on the same terms as men. In the event of vacancies, students from other medical schools may be considered for admission to any quarter for which their previous training has fitted them. Each application for advanced standing will be considered upon its own merits.

REQUIREMENTS FOR ADMISSION

"I request that great care and discrimination be exercised in admitting as students only those whose previous record shows a character, determination and application evincing a wholesome and real ambition for life."—James B. Duke.

Intelligence and character are the essential qualifications for admission.

The minimum requirements for admission to this School include approved college credits of not less than three full academic years, which

shall include adequate preparation in English, mathematics, physics, biology, and chemistry.* This preparation should be obtained in college courses of one-year duration except for chemistry. In that subject a two-year course is recommended: the first year to cover general (inorganic) chemistry; the second, analytic and organic chemistry.

The premedical student should be aware of the importance of a well-rounded general education as a preparation for the study of medicine and not limit himself to scientific courses. He would be better advised to secure a knowledge of the principles and a thorough appreciation of the interrelations of the basic sciences than to accumulate credits in many courses. He should learn how to work independently, to observe critically, and to analyze, rather than simply store, the information presented. His choice of studies, beyond those required for admission, should be governed by his own chief interests and by the intellectual stimulus to be derived from the work. His major interest may be in any field, scientific or otherwise, and should provide an opportunity for the demonstration of his real ability. In general, he should avoid courses in subjects which are included in the medical curriculum.

The selection of students is based upon the quality rather than the quantity of preparation and upon demonstrated evidence of personal attributes of intelligence, character, and general fitness for the study and practice of medicine. In considering an applicant many sources of information may be consulted, including (1) his curricular and extracurricular college record, (2) carefully prepared, confidential appraisals by teachers who know him personally, (3) his percentile rating on the Medical Aptitude Test,** and (4) the results of an interview with members of the Admission Committee or one of its Regional Representatives.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN MEDICINE

After the completion of six quarters in the Duke University School of Medicine, Duke University, on the recommendation of the Executive Committee, grants the degree of Bachelor of Science in Medicine to medical students who have completed creditable investigative work, prepared an acceptable report of the investigation, and passed an examination upon the subject of the investigation before an advisory committee. Students who elect to undertake work toward this degree must obtain written permission from the Executive Committee after approval of their program by the head of the department in which the work is to be done.

* For the duration of the war, students may be eligible for admission who present collegiate credits of two academic years (four semesters or six trimesters), including English, theoretical and practical courses in physics, biology, general and organic chemistry, completed in approved institutions. These requirements are covered in the fifteen to twenty continuous months of the Army and Navy Specialized Training Programs.

Under present regulations only students who are ineligible for military duty may apply for admission to medical schools during 1945. Applications will be sent to those ineligible for military duty if they will write to the Committee on Admission, Duke University School of Medicine, Durham, N. C. They can be considered for the class starting in July, 1945. All classes before that time are filled. Students who are eligible for military duty will be selected by the Army and the Navy from the ranks, and will be assigned to the various medical schools.

** This test is given at many of the colleges. If information is not available locally, it may be secured from Dr. F. A. Moss, Columbia Medical Building, Washington, D. C.

No credit toward this degree is given for additional college work. All students in good standing are encouraged to undertake such investigative work as they may elect with the approval of the head of the department in which they wish to work. All requirements must be completed three months prior to the date on which the B.S. degree is requested.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF MEDICINE

The degree of Doctor of Medicine is conferred on those who have completed, to the satisfaction of the Executive Committee, the twelve quarters of the curriculum of the School of Medicine, the preclinical and clinical examinations, and have signed an agreement that they will spend at least two of the succeeding three years in hospital or laboratory work acceptable to the Executive Committee. As a guarantee of this pledge, the diploma is deposited in the Treasurer's Office until after the completion of this training. Failure to fulfill this agreement constitutes a waiver of any claim to possession of the diploma and the degree of Doctor of Medicine. One year of active duty with the Army or Navy Medical Corps will be accepted for the second year of the required two years of internship.

DEPARTMENTS OF INSTRUCTION

Anatomy

J. E. Markee, *Professor of Anatomy.*
D. C. Hetherington, *Associate Professor of Anatomy in Charge of Histology and Neurology.*
W. H. Hollinshead, *Assistant Professor of Anatomy.*
J. W. Everett, *Assistant Professor of Anatomy.*
T. L. Peele, *Assistant Professor of Anatomy.*
K. L. Duke, *Associate in Anatomy.*
C. H. Sawyer, *Associate in Anatomy.*
G. J. Baylin, *Instructor in Anatomy and Assistant Professor of Radiology.*

The required courses of instruction in gross human anatomy, histology, and neurology are scheduled for five and one half days a week for a period of eighteen weeks during the first quarter and the first half of the second quarter. In all of this work considerable freedom is allowed the student in his selection of working hours and in the planning of his own methods of attack. Emphasis is placed upon the study of material in the laboratory, supplemented by a few lectures and by frequent small-group conferences, upon any phases of the work then current. All of the instruction is designed to be as informal and as nearly individual as possible. General principles and the functional viewpoint of living anatomy are stressed in the hope that the student may be stimulated to secure a working knowledge of anatomy in the broadest sense. Whenever possible, fresh tissues and living cells are made available for examination, and clinical cases exemplifying anatomical principles are studied whenever they are available at appropriate times. Through the co-operation of the Department of Radiology, the students are given an opportunity to study portions of the living human body as revealed by the fluoroscope and roentgenograph.

Demonstrations in Anatomy. Using dissections already prepared, weekly demonstrations of selected regions or systems are made by the members of the group. Sixth quarter—Two hours per week by arrangements. Second-year students in groups of 10.

Special Neuroanatomy. Laboratory work and conferences upon selected portions of the human central nervous system. A two-quarter course limited to 6 junior or senior students. Tuesday and Thursday mornings of the first quarter are devoted to study of sections and dissections of the brain stem. Satisfactory completion of the first quarter will determine admission to the second quarter seminars—2 hours weekly by arrangement—upon special topics in neuroanatomy and neurophysiology.

Brain Modeling. Free-hand reconstruction in clay, from gross and sectioned material, of the chief tracts and nuclei of the human brain stem. A two-quarter course, by arrangement—4 to 10 students.

Experimental Neurology. An operative and laboratory study of the effect of various lesions upon the central and peripheral portions of the

nervous system. 4 to 8 junior and senior students by arrangement. Prerequisite—operative surgery.

Seminar. This work is designed for those who are interested in becoming acquainted with some of the original literature on anatomical problems. A wide range of choice in the selection of topics is encouraged. Weekly, any quarter; time by arrangement. 6 to 10 students.

Advanced Studies in Anatomy. Further work in the several branches of anatomy may be arranged at any time. Prospective candidates for such work should discuss their wants with the members of the Staff in charge of the particular field in which work is requested, since only a small number can be accommodated at any one time. A few properly qualified students may be permitted to undertake original research under the direction of various members of the Staff.

Biochemistry

W. A. Perlzweig, *Professor of Biochemistry.*
H. M. Taylor, *Associate Professor of Biochemistry and Toxicology.*
Mary L. C. Bernheim, *Assistant Professor of Biochemistry.*
Hans Neurath, *Assistant Professor of Biochemistry.*
T. B. Coolidge, *Assistant Professor of Biochemistry.*
Philip Handler, *Assistant Professor of Biochemistry and Nutrition.*
J. O. Erickson, *Assistant in Biochemistry.*
J. W. Huff, *Nutrition Foundation Fellow in Biochemistry.*
F. W. Putnam, *Research Fellow in Biochemistry.*
E. Volkin, *Abbott Laboratories Fellow in Biochemistry.*
Irma Gue, *Research Assistant in Biochemistry.*

The required course in general biochemistry for first-year students is given over a period of eighteen weeks comprising the last half of the second quarter and throughout the third quarter. Two lectures, four laboratory periods, and one conference period per week are devoted first to the correlation of the fundamental facts and theories of physical and organic chemistry of proteins, fats, and carbohydrates with the chemistry of living organisms; followed by an intensive study of the chemical aspects of the processes of digestion, absorption, circulation and respiration, acid-base and salt equilibrium, intermediary and over-all metabolism. Each student carries out on himself a fairly complete, metabolic balance study involving quantitative analyses of blood urine.

Since the success of the students in this course is largely determined by the adequacy and ready availability of their premedical training, it is urged that all students review the fundamental laws, theories, and facts of chemistry before the beginning of the course. A circular outlining the topics requiring special attention is sent to all students upon admission. Additional copies of the circular may be obtained from the Dean's Office. An examination to test the state of preparation of the student is given in the beginning of the course in biochemistry.

Electives. In connection with the course given in the sixth quarter for second-year students a survey of pathological and clinical chemistry is presented. In this course are covered abnormalities of: protein, fat and carbohydrate metabolism, acid-base regulation, salt and water dis-

tribution, nitrogen retention, calcium and phosphorus metabolism, blood and derived bile pigments. The discussion of these topics is based upon case histories, including the records of the Clinical Chemical Laboratory of the Hospital.

Biochemical Research. The facilities of the department, including various types of research equipment and the clinical material of the blood chemistry laboratory, are available to properly qualified students for independent or supervised investigations. Chemical investigations of problems in biochemistry or in conjunction with the clinical departments and the Department of Pathology may be carried on.

Seminar in Toxicology. A round-table discussion of the homicidal, suicidal and industrial poisons, alcoholism, etc., by arrangement.

Laboratory Detection of Common Poisons. A laboratory course in the properties, detection, and identification of the common poisons. Consideration is given to the types of material to be examined, legal precautions to be taken and interpretation of the findings, by arrangement.

Chemistry of Proteins, Enzymes, and Viruses. A two-hour seminar is given weekly throughout the Autumn, Winter, and Spring Quarters.

Immunochemistry. A two-hour seminar given in collaboration with the Department of Bacteriology. This course is given in alternate years with the preceding course in protein chemistry.

Physiology, Pharmacology, and Nutrition

G. S. EADIE, *Professor of Physiology and Pharmacology.*
F. D. MCCREA, *Associate Professor of Physiology and Pharmacology.*
FREDERICK BERNHEIM, *Associate Professor of Physiology and Pharmacology.*
W. J. DANN, *Associate Professor of Physiology and Nutrition.*
HANS LÖWENBACH, *Assistant Professor of Neuropsychiatry and Physiology.*
MACDONALD DICK, *Associate in Medicine, Physiology, and Pharmacology.*
J. P. HENDRIX, *Associate in Medicine.*
PHILIP HANDLER, *Associate in Physiology and Nutrition.*
PERCY M. DAWSON, *Visiting Professor in Physiology and Pharmacology.*
C. O. BRINDLEY, *Fellow in Physiology.*

The elements of physiology, pharmacology, and nutrition are taught in the laboratory and in frequent conferences.

Research. A few properly qualified students are permitted to undertake original research in physiology, pharmacology, or nutrition under the direction of various members of the Staff.

Pathology

W. D. FORBUS, *Professor of Pathology.*
D. H. SPRUNT, *Associate Professor of Pathology.*
R. D. BAKER, *Associate Professor of Pathology in Charge of Surgical Pathology.*
†C. C. ERICKSON, *Associate in Pathology.*
GEORGE MARGOLIS, *Instructor in Pathology.*
I. N. DUBIN, *Instructor in Pathology.*
DONALD DEF. BAUER, *Assistant in Pathology.*
ANNIE BESTEBREURTJE, *Assistant in Pathology.*
LALLA IVERSON, *Assistant in Pathology.*
H. L. HOWARD, *Assistant in Pathology.*
D. J. MCCULLOCH, *Assistant in Pathology.*
L. A. LIVERSEDGE, *Fellow in Pathology.*

† On active duty; U. S. Army.

General Pathology. The course in general pathology is given during the fourth and fifth quarter of the curriculum, following completion of the prerequisite courses in anatomy, physiology, and biochemistry. The course in pathology is coordinated with that in bacteriology, the timing and arrangement of the two courses being such that the general principles governing the growth and propagation of bacteria are covered before the students undertake the study of bacterial parasitism in the course in general pathology.

The objects of the instruction in pathology are briefly as follows: (a) to provide an opportunity for the medical student to gain a comprehensive knowledge of general biological principles as they may be observed in the diseased animal, (b) to guide the student in his study of the basic pathological reactions of animal tissues and of the individual as a whole to the environmental influences under which they live, and (c), to acquaint the students with the common disease entities. The course embraces a study of the nature, causation, development and outcome of disease, in brief, a comprehensive study of the reactions of the body to injury. The schedule of instruction falls into three major divisions, each dealing with one of the basic reactions to injury (submission, resistance, adaptation) and the disease entities arising out of their elaboration. A short period of orientation introduces the three major divisions of the schedule.

The permanently preserved materials of instruction consists of (a) a museum of fixed tissues, preserved in unsealed containers in each of which are deposited the organs from a single case, (b) the histological preparations made in the study of these cases, (c) complete clinical and anatomical protocols corresponding to the cases, and (d) a supplementary loan collection of microscopic preparations and lantern slides. These materials are in addition to those from the current autopsies, which average about 325 a year. All materials are catalogued and are grouped in such a way as to facilitate their use by the individual students and by the small groups into which the class is divided.

All the museum work of the class is done with small groups, each under the guidance of a senior instructor and his junior assistant. The assignment of instructors is changed at appropriate intervals. The chief emphasis of instruction is upon the basic pathological processes underlying the well-established disease entities. The central theme of the course is carried by lectures which orient the museum work of the various student groups. Although the emphasis is upon the basic reactions to injury and the corresponding pathological processes, this is accomplished through the study of actual cases of human disease in which these general pathological processes occur. Disease is presented to the study as a natural phenomenon referable to the body as a whole, and no distinction is drawn between the basic pathological processes as they may happen to occur in the different organs of the body; nevertheless, adequate account is taken of their variations in localization and associated functional disturbances, etc., under different sets of circumstances, as the cases of

well-defined disease entities are studied. The histological aspects of the pathological processes are studied coincidentally with the gross anatomical and physiological alterations of the tissues, thus maintaining a unity of conception of disease. As the various pathological processes and the disease arising from their elaboration are studied by the student groups, assignments involving reports on the study of groups of cases are made to individual students.

The group work and the individual student reports are supplemented by weekly conferences involving the class as a whole and dealing with problems presented by current autopsies and with other problems of general importance. Student collaboration in the post-mortem study is required. For this purpose the class is divided into groups of three students. One of these makes a bacteriological study of the case, but each student is required to make his own general pathological study of the case with appropriate protocols. Cases thus prepared are presented by the students before the class under the direction of the Staff; this takes the form of a clinical-pathological conference in which each student plays a separate role.

Elective Courses. Special courses in pathology are given to students who have completed the course in general pathology. These courses are elective and are available through special arrangement.

Clinical Pathological Conference. A weekly clinical pathological conference for advanced study, held during three quarters of the year, is open to all persons interested, but is designed especially for the Hospital and Medical School Staff. Attendance by all the students is encouraged, but is optional. This conference deals with a single case which serves as a text for the discussion of fundamental problems related to the nature, cause, development, and treatment of disease.

On alternate Saturdays a diagnostic clinical-pathological conference is held in collaboration with the staffs of the medical and pediatric departments, dealing with current autopsies from these services. Attendance of the junior and senior students is required at this conference, in which they take an active part.

Miscellaneous weekly clinical-pathological conferences dealing with current cases under treatment on the various surgical services are held for instruction of the resident staffs concerned.

Student Research. Research facilities are provided for competent students. Those who show an interest in investigative work are given every encouragement and are allowed to work independently or in collaboration with the Staff.

Postgraduate Instruction. The Staff of the department is composed of senior nonresident and junior resident members. The junior residents Staff consists of interns, assistant residents, and a resident; all of these are active teachers as well as advanced students of disease. Ample opportunity for the development of careers in the field of pathology is provided for these men. Appointments are renewable over a number of years with appropriate advancement for those who demonstrate ability and adaptability for work in this field.

Medicolegal Instruction. The department works in close cooperation with the local coroner's office. A large proportion of the coroner's post-mortem investigations are made by the Staff. Special medicolegal investigations for others are undertaken from time to time. The department collaborates with other departments of the Medical School and with the Law School in an elective course in legal medicine that is given in alternate years.

Comparative Pathology. The department maintains a pathological diagnostic service for the State Laboratory of Animal Industry, from which valuable materials are obtained for the study of diseases of domestic animals. This connection also facilitates a close collaboration in experimental investigations between the Staff and the Bureau of Animal Industry.

Bacteriology and Parasitology

D. T. Smith, *Professor of Bacteriology and Associate Professor of Medicine.*
A. S. Pearse, *Professor of Zoology.*
D. S. Martin, *Associate Professor of Bacteriology and Associate in Medicine.*
N. F. Conant, *Assistant Professor of Bacteriology and Mycology.*
Mary A. Poston, *Instructor in Bacteriology.*
E. E. Menefee, Jr., *Instructor in Medicine and Bacteriology.*
Ruth McLean, *Research Associate in Bacteriology.*
H. W. Craig, *Technical Instructor in Bacteriology.*

Bacteriology, Immunology, Parasitology, and Mycology. The required course is given in the fourth quarter. An intensive study is made of the common bacteria, fungi, and parasites which cause disease in man. The scope of the laboratory course is reasonably wide and acquaints the student with all the methods and procedures employed in bacteriological laboratories. Most of the lecture time is devoted to the immunological and epidemiological aspects of infection. The instruction is designed to give the students a clear conception of: (1) how organisms gain entrance to the body, (2) the type of poisons which they produce, (3) the nature of immune bodies which are produced by the host, and (4) the methods of preventing the disease by active and passive immunization.

Research Bacteriology. Opportunities for original investigations are afforded a few specially qualified students.

Clinical Bacteriology. During their clinical clerkships on medicine (one quarter each for junior and senior classes), the students may perform the routine and special bacteriological work for the patients assigned to them on the teaching service, under the direction of the Department of Bacteriology and in parallel with the Biological Division of the medical clinic.

Medicine

Frederic M. Hanes, *Florence McAlister Professor of Medicine.*
D. T. Smith, *Professor of Bacteriology and Associate Professor of Medicine.*
J. M. Ruffin, *Associate Professor of Medicine in Charge of Physical Diagnosis.*
O. C. E. Hansen-Prüss, *Associate Professor of Medicine in Charge of Clinical Microscopy.*
Christopher Johnston, *Assistant Professor of Medicine.*
P. P. McCain, *Assistant Professor of Medicine.*
W. M. Nicholson, *Assistant Professor of Medicine.*

E. S. ORGAIN, *Assistant Professor of Medicine.*
†E. L. PERSONS, *Assistant Professor of Medicine.*
D. S. MARTIN, *Associate Professor of Bacteriology and Associate in Medicine.*
WALTER KEMPNER, *Assistant Professor of Medicine.*
E. B. CRAVEN, JR., *Associate in Medicine.*
MACDONALD DICK, *Associate in Medicine, Physiology, and Pharmacology.*
J. P. HENDRIX, *Associate in Medicine.*
SUSAN G. SMITH, *Associate in Medicine.*
‡N. BOWMAN WISE, *Associate and James A. Greene Research Fellow in Medicine.*
A. DERWIN COOPER, *Instructor in Medicine.*
*H. J. FOX, *Instructor in Medicine.*
†S. C. HALL, *Instructor in Medicine.*
†T. T. JONES, *Instructor in Medicine.*
†I. H. MANNING, JR., *Instructor in Medicine.*
E. E. MENEFEE, JR., *Associate in Medicine.*
CLOTILDE SCHLAYER, *Research Assistant.*
†O. N. SMITH, *Instructor in Medicine.*
P. W. SMITH, *Technical Instructor in Microscopy.*
M. F. JAMES, *Technical Instructor in Clinical Microscopy.*
†J. B. STEVENS, *Instructor in Medicine.*
R. W. GRAVES, *Assistant Professor of Neurology.*
†R. L. CRAIG, *Instructor in Neurology.*
J. L. CALLAWAY, *Assistant Professor of Medicine in Charge of Dermatology and Syphilology.*
I. T. REAMER, *Instructor in Pharmacy.*
DAVID CAYER, *Instructor in Medicine.*
KENNETH WEEKS, *Instructor in Medicine.*
E. G. GOODMAN, *Instructor in Hematology and Allergy.*
H. A. KING, *Assistant in Medicine.*
E. D. LEVY, *Assistant in Medicine.*
J. B. LOGE, *Assistant in Medicine.*
J. F. REINHARDT, *Assistant in Medicine.*
E. F. B. CADMAN, *Fellow in Medicine.*
SIGMUNDUR JONSSON, *Fellow in Medicine.*
OLAFUR SIGFURDSSON, *Fellow in Medicine.*
L. H. MARGOLIS, *Instructor in Neurology.*
FRIDRIK KRISTOFERSSON, *Fellow in Neurology.*
R. O. NOOJIN, *Instructor in Dermatology and Syphilology.*
A. H. FLOWER, JR., *Assistant in Dermatology and Syphilology.*

Clinical Microscopy is given in the fifth quarter. The course includes the essentials of hematology and the examination of fresh material, such as urine, stools, spinal fluids, sputum, transudates, and exudates. The most important parasites of man are studied by the use of fresh and museum material. Second-year and senior students are given opportunities for special work and for investigation.

Physical Diagnosis and Introduction to Clinical Medicine. This course, in the sixth quarter, consists of instruction in history taking, physcal examination, and the application of the preclinical science to the interpretation of findings. All departments, preclinical and clinical, including the specialties, participate. The importance of co-operation between clinic and laboratory is emphasized, and the preclinical departments extend the teaching of their particular branches in correlation with other preclinical

† On active duty; U. S. Army.
‡ On leave of absence.
* On active duty; U. S. Navy.

and clinical studies. In this manner the course serves as an introduction to clinical medicine. The class is divided into sections of not more than ten students, and each student is given individual instruction.

Junior Medicine. Junior students are assigned in small groups for one quarter to the medical wards as clinical clerks. Teaching rounds are held from 8:30 to 9:30 A.M. on Mondays, Wednesdays, and Fridays. Medical clinics are given on Mondays, Wednesdays, and Saturdays at 11:30 A.M.

Therapeutics. Each group of junior students receives practical instruction in *pharmaceutics* under the guidance of an instructor in pharmacy. On Tuesdays and Thursdays from 1:30 to 2:30 P.M. bedside instruction is given in *applied pharmacology and therapeutics* to the group on Junior Medicine.

Senior Medicine. Senior students are assigned for one quarter to the Dispensary as clinical clerks. Teaching rounds are held from 9:30 to 11:30 A.M. on Mondays and Fridays. Seniors attend medical clinics on Mondays, Wednesdays, and Saturdays at 11:30 A.M.

Cutaneous Medicine and Syphilology. Instruction consisting of lectures, seminars, and study and treatment of patients in the out-patient clinic is offered each quarter to senior students.

Neurological Medicine. A sound understanding of neurological diseases is an essential equipment of every physician. Junior students are assigned neurological cases routinely during their service as medical clinical clerks. An elective course consisting of advanced bedside teaching in clinical neurology is offered for three quarters to senior students. The Laboratory of Experimental Neurology is available for postgraduate investigative work; this laboratory handles routinely the neurosurgical biopsy material, including intracranial tumors. An electro-encephalograph is in routine clinical use in both neurology and neuropsychiatry and is available for special research problems.

Neuropsychiatry

R. S. Lyman, *Professor of Neuropsychiatry.*
R. S. Carroll, *Lecturer in Neuropsychiatry.*
Bingham Dai, *Lecturer in Psychiatry.*
J. F. Owen, *Lecturer in Neuropsychiatry.*
H. E. Jensen, *Professor of Sociology and Mental Hygiene.*
*R. S. Crispell, *Associate Professor of Neuropsychiatry.*
M. H. Greenhill, *Associate Professor of Neuropsychiatry.*
†Leo Alexander, *Associate Professor of Neuropsychiatry.*
Herman deJong, *Associate Professor of Neuropsychiatry.*
D. K. Adams, *Associate Professor of Psychology.*
E. T. Thompson, *Associate Professor of Sociology and Mental Hygiene.*
Hans Löwenbach, *Assistant Professor of Neuropsychiatry and Physiology.*
R. B. Suitt, *Associate in Neuropsychiatry.*
Otto Billig, *Associate in Neuropsychiatry.*
R. C. Carroll, *Associate in Neuropsychiatry.*
C. F. Walker, *Associate in Neuropsychiatry.*
†D. J. Sullivan, *Instructor in Neuropsychiatry.*
†R. L. Garrard, *Instructor in Neuropsychiatry.*
F. H. Hesser, *Instructor in Neuropsychiatry.*

* On active duty; U. S. Navy.
† On active duty; U. S. Army.

J. M. FEARING, *Instructor in Neuropsychiatry.*
S. R. KILGORE, *Assistant in Neuropsychiatry.*
J. A. KNEIPP, *Assistant in Neuropsychiatry.*
J. F. OTT, *Assistant in Neuropsychiatry.*
KATHARINE KAO, *Psychologist.*
HILTON MCANDREW, *Psychologist.*
BARBARA KIRKPATRICK, *Social Worker.*
KATHARINE R. LYMAN, *Social Worker.*
HILDA HERTZ, *Sociologist.*

Instruction starts in the first year with an introductory course in psychobiology, including the general presentation of the main reaction types. In the second year methods of examination and patients are worked up in the out-patient clinic for a period of three and a half weeks. Internships are available in neuropsychiatry, with the expectation that they will lead to progressively greater interests in the neuropsychiatric problems encountered on all other services in the Hospital. Elective work can be arranged for interested persons. Investigation is encouraged.

Surgery

DERYL HART, *Professor of Surgery.*
†C. E. GARDNER, JR., *Associate Professor of Surgery.*
J. W. BEARD, *Associate Professor of Surgery in Charge of Experimental Surgery.*
†BARNES WOODHALL, *Assistant Professor of Surgery in Charge of Neurosurgery.*
K. LEE. PICKRELL, *Associate in Surgery.*
H. M. SCHIEBEL, *Instructor in Surgery.*
G. R. COOPER, *Research Associate in Experimental Surgery.*
D. G. SHARP, *Research Associate in Experimental Surgery.*
A. R. TAYLOR, *Research Associate in Surgery.*
DOROTHY W. BEARD, *Research Assistant in Experimental Surgery.*
W. B. ANDERSON, *Assistant Professor of Surgery in Charge of Ophthalmology.*
W. W. EAGLE, *Associate Professor of Surgery in Charge of Otolaryngology.*
G. B. FERGUSON, *Associate in Bronchoscopy.*
L. D. BAKER, *Associate Professor of Surgery in Charge of Orthopaedics.*
R. B. RANEY, *Associate in Orthopaedics.*
W. M. ROBERTS, *Lecturer in Orthopaedics.*
E. P. ALYEA, *Clinical Professor of Urology.*
J. E. DEES, *Assistant Professor of Urology.*
K. S. GRIMSON, *Associate in Surgery.*
G. L. ODOM, *Associate in Neurosurgery.*
F. K. STOCKER, *Associate in Otolaryngology and Ophthalmology.*
G. G. GILBERT, *Instructor in Urology.*
†L. C. ROBERTS, *Instructor in Urology.*
T. W. ATWOOD, *Associate in Dentistry.*
†N. F. ROSS, *Instructor in Dentistry.*
†L. M. EDWARDS, JR., *Assistant in Dentistry.*
D. L. LOVELL, *Instructor in Surgery.*
W. L. WELLS, *Instructor in Surgery.*
A. B. CECIL, JR., *Assistant in Surgery.*
G. B. HODGE, *Assistant in Surgery.*
C. E. KERNODLE, *Assistant in Surgery.*
DAVID A. WILSON, *Assistant in Surgery.*
ROBERT S. NEILL, *Assistant in Surgery.*

† On active duty; U. S. Army.

Francis Nicholson, *Assistant in Surgery.*
M. P. Rogers, *Assistant in Surgery.*
D. A. Wilson, *Assistant in Surgery.*
H. H. Kuhn, *Instructor in Orthopaedics.*
H. A. Stiles, *Assistant in Orthopaedics.*
K. R. Thompson, Jr., *Assistant in Orthopaedics.*
J. C. Trent, *Assistant in Surgery.*
Antony Jefferson, *Fellow in Surgery.*
R. E. Prindle, *Instructor in Otolaryngology and Ophthalmology.*
Larry Turner, *Assistant in Otolaryngology and Ophthalmology.*
J. W. Clower, *Assistant in Otolaryngology and Ophthalmology.*
P. R. Massengill, *Assistant in Otolaryngology and Ophthalmology.*
D. W. Goddard, *Assistant in Urology.*
A. A. Parrish, *Assistant in Urology.*
I. W. McLean, *Research Fellow in Virus Diseases.*

General Surgery. In the sixth quarter the second-year students, during their course in physical diagnosis, attend clinics and demonstrations arranged to familiarize them with the techniques of examinations and the diagnostic procedures used in general surgery and the surgical specialties. Emphasis is placed on the more practical and commonly used methods.

During the last six quarters at 11:30 A.M. on Tuesdays and Fridays and at 9:30 A.M. on Saturdays, clinics in surgery and the surgical specialties are held for junior and senior students. The *junior* students, during their surgical quarter, attend ward rounds in surgery from 8:30 to 10:30 A.M. on Mondays, Wednesdays, and Fridays, act as clinical clerks on the wards, avail themselves of the electives offered, and attend the regular clinics. The surgical group in the *senior* year attends ward ward rounds from 8:30 to 10:30 A.M. on Mondays, Wednesdays, and Fridays, the regular clinics and the electives offered, and assists in the surgical dispensary in the afternoon. Individuals may take any of the electives offered.

A course in operative surgery is given in the experimental laboratory from 8:30 to 11:30 A.M. on Tuesdays and Thursdays during the quarters necessary to make it available for all students. The group is divided into operating teams, and each student takes his turn serving as the operator, first assistant, and anesthetist. Special work in experimental surgery may be arranged by conference with the instructor. The purpose of this course is to teach the basic principles of aseptic surgery, anesthesia, and the technique of operations illustrating various types of surgery, the operative procedures being of gradually increasing difficulty.

A course in emergency and traumatic surgery is given during the senior surgical quarter. In groups of two, students are assigned to the emergency room for all accidents and emergencies. Opportunity is given to observe and assist in the treatment of accident cases and in the diagnosis and treatment of all emergencies. Lectures are given as indicated. In addition to scrubbing on the emergency cases which they see, these students, in groups of two, are also assigned to the operating room for additional practical experience in surgical technique.

An *elective* course in anesthesia is open to twelve properly qualified senior students each quarter. Students meet the anesthetist each morning

in the operating room and observe and administer anesthetics under supervision.

Otolaryngological Division. An introductory course of instruction in the use of otolaryngological instruments, with a review of normal anatomy, is given to second-year students in the sixth quarter. Clinics on Fridays at 11:30 A.M. during the sixth quarter are given to junior and senior students; junior students during their obstetric quarter spend two afternoons for five and one-half weeks in the otolaryngological dispensary. There are no formal otolaryngological ward rounds, but junior and senior students are assigned to patients during the surgical quarter. Individual instruction is given the student by the various members of the Staff. Each quarter an elective course in ear, nose, and throat is given. This course includes anatomy; physiology; diseases of ear, nose, and throat; x-ray interpretation; and the use of diagnostic instruments.

Ophthalmological Division. During the sixth quarter second-year students receive instruction in elementary ophthalmology. During the senior pediatric quarter the students work in the ophthalmological clinic as assigned, and assist in the study and treatment of eye diseases. Especial emphasis is placed on the underlying medical and surgical conditions. Each student follows throughout his time in the clinic all patients assigned to him. For those who manifest an unusual interest in this specialty, provision will be made for more advanced work. Each quarter an elective is given one hour a week, which includes anatomy, physiology, refraction, muscle imbalance, neuro-ophthalmology, ocular pathology, and the use of diagnostic instruments.

Orthopaedic Division. In the sixth quarter an introductory course is given. During the surgical quarters the junior and senior students attend orthopaedic ward rounds at 9:30 A.M. on Mondays and attend fracture ward rounds at 9:30 A.M. on Fridays. Amphitheater clinics are held one quarter each nine months at 11:30 A.M. on Fridays for juniors and seniors. Students in their senior surgical quarter are assigned in rotation to the orthopaedic dispensary, which is held each afternoon from Monday to Friday, inclusive; these students attend general ward rounds with the orthopaedic staff at 9:30 A.M. on Wednesdays and may attend Journal Club meeting, x-ray conference, and general ward rounds with the Staff from 10:00 A.M. to 1:00 P.M. on Sundays. An elective course in the treatment of fractures is offered during the junior and senior surgical quarters. In this course the students get practical training in the reduction of fractures, the application of plaster of Paris casts, and in the follow-up treatment of fractures. Elective courses in physical therapy and in the care of cerebral palsy patients are offered to the junior and senior students. The latter elective is given at 813 Fifth Street, where the Orthopaedic Division conducts a special clinic for the treatment of cerebral palsy. The clinic has a bed capacity of twelve and is staffed with a specially trained physiotherapist, a schoolteacher, and an administrative officer. The clinic is open at any time to interested students. Arrangements may be made for students who wish to do research or ex-

perimental work. Students are given the opportunity of attending the North Carolina Orthopaedic Hospital Clinic at Goldsboro the third Thursday of each month. They may also attend similar clinics held in Lumberton the first Friday of each month, in Elizabeth City the last Tuesday of each month, and in Tarboro the Monday before the last Tuesday of each month. By special arrangement with the curriculum committee senior students in the surgical quarter may by application do substitute intern work at the North Carolina Orthopaedic Hospital in Gastonia.

Urologic Division. In the sixth quarter, second-year students are given a course of lectures and practical demonstrations in urologic physical diagnosis in the normal individual student. Ward rounds on urologic patients are given every Saturday at 8:30 A.M., throughout the year, which junior students in their surgical quarter, and the senior surgical group are required to attend. During each quarter, small groups are selected from the senior surgical group of students and assigned in rotation to the urologic dispensary every afternoon. Here, under proper supervision, they study patients and give recommended treatment. During one and a third quarters of the year urologic clinics are given on Fridays at 11:30 A.M. for the junior and senior classes. These clinics deal with the affections of the male and female urinary tract and of the male genital tract. Clinics for urethroscopic and cystoscopic investigation and for the more technical methods of urologic diagnosis and treatment are held Monday, Wednesday, and Thursday from 1:30 to 5:00 P.M. and Tuesdays and Thursdays from 9:30 A.M. to 12:30 P.M. throughout the year. X-ray conferences on all urologic cases are held Tuesday, Thursday, and Saturday mornings from 8:30 to 9:30 and are followed by Staff rounds. Three senior students may select one of these cystoscopic clinics, x-ray conferences, and Staff rounds as an elective. *The Urologic Journal Club* meets each Monday from 4:30 to 6:30 P.M., and members of the Staff review their respectively assigned journals. Interested students are welcome.

Neurosurgical Division. Throughout the year at 11:30 A.M., on every third Tuesday, neurosurgical clinics are held for junior and senior students, at which the general principles of neurosurgical diagnosis and treatment are discussed. During all four quarters, weekly ward rounds are held at 8:30 A.M. on Fridays for the senior surgical group. Emphasis in these smaller clinics is placed upon the recognition of neurosurgical problems, followed by observation of the operative and postoperative procedures. Weekly x-ray and pathological conferences are held, and these may be attended by interested individuals.

The Tumor Clinic of the Duke Hospital is organized for the study and student teaching of malignant disease. It is staffed by a surgeon, radiologist, and pathologist, who attend all clinics; and consultants in the various specialties are called when a patient with a malignant tumor in their field is registered in the clinic. Students in their senior surgical quarter see all cases registered in the clinic and work them up and have available for teaching not only the clinical background of the Staff but also pathological sections of tumors under the study of the pathologists.

Dentistry. Second-year students, in the sixth quarter, are instructed in the principles of dentistry.

Radiology

R. J. REEVES, *Clinical Professor of Radiology.*
G. J. BAYLIN, *Assistant Professor of Radiology and Instructor in Anatomy.*
J. E. HEMPHILL, *Associate in Radiology.*
C. C. PEARCE, *Instructor in Radiology.*
H. T. GUARE, *Assistant in Radiology.*
A. B. HANDY, JR., *Assistant in Radiology.*

The required course in roentgenology for the fourth-year students is given to a section, one hour per week, each quarter. There is general discussion on roentgen differential diagnosis. X-ray and radium therapy cases are presented each week, and problems of treatment and follow-up are discussed. The correlation of surgery and radiology is stressed.

Elective courses in x-ray interpretation and differential diagnosis are offered for junior and senior students, in limited numbers, on Tuesday and Thursday throughout the four quarters, from 9:30 to 10:30 A.M. The correlation of general medicine and x-ray and the value of x-ray in clinical diagnosis are stressed. A pediatric x-ray conference is held on Friday mornings from 11:00 to 12:00 throughout the year, in the Pediatric Conference room. The pediatric resident presents all cases who have had x-rays during the week. A surgical house staff conference is held each alternate Tuesday night from 7:30 to 8:30, and a similar conference with the medical house staff on the alternate Wednesday nights from 8:00 to 9:00. All cases with interesting x-rays are discussed.

Obstetrics and Gynecology

BAYARD CARTER, *Professor of Obstetrics and Gynecology.*
E. C. HAMBLEN, *Associate Professor of Obstetrics, Gynecology, and Endocrinology.*
*R. A. ROSS, *Associate Professor of Obstetrics and Gynecology.*
†W. L. THOMAS, JR., *Assistant Professor of Obstetrics and Gynecology.*
M. PIERCE RUCKER, *Lecturer in Obstetrics and Gynecology.*
E. B. EASLEY, *Associate in Obstetrics and Gynecology.*
W. A. GRAHAM, *Instructor in Obstetrics and Gynecology.*
R. L. ALTER, *Instructor in Obstetrics and Gynecology.*
E. J. GREGORY, *Assistant in Obstetrics and Gynecology.*
J. R. KERNODLE, *Assistant in Obstetrics and Gynecology.*
W. A. PETERS, *Assistant in Obstetrics and Gynecology.*
P. E. SIMPSON, *Assistant in Obstetrics and Gynecology.*
S. W. SMITH, *Assistant in Obstetrics and Gynecology.*
V. H. TURNER, *Assistant in Obstetrics and Gynecology.*
J. M. WILSON, *Assistant in Obstetrics and Gynecology.*
PRENTISS WILLSON, JR., *Assistant in Obstetrics and Gynecology.*
CARLOS MARDONES, *Fellow in Obstetrics and Gynecology.*
CLARENCE D. DAVIS, *Instructor in Endocrine Division, Obstetrics and Gynecology.*
C. W. LLOYD, *Assistant in Endocrine Division, Obstetrics and Gynecology.*
W. K. CUYLER, *Research Instructor, Endocrine Division, Obstetrics and Gynecology.*
JUAN ZÁNARTU, *Fellow in Endocrinology.*
C. P. JONES, *Bacteriologist in Obstetrics and Gynecology.*

* On active duty; U. S. Navy.
† On active duty; U. S. Army.

Second-year students receive seventeen hours of instruction in the fundamentals of obstetrics and gynecology during their course in physical diagnosis in the sixth quarter. Clinics and demonstrations for junior and senior students are held on Saturdays at 10:30 A.M. during the Autumn, Winter, and Spring Quarters and on Mondays at 11:30 A.M. in the Summer Quarters. During one quarter of the *junior* year each group of students attends ward rounds at 8:30 A.M. on Mondays, Wednesdays, and Saturdays, and the Public Dispensary at 1:30 P.M. three times weekly, for eleven weeks. They also attend an endocrine clinic once a week for eleven weeks during the junior year. The students also spend part of each day on the wards. *Senior* students, during their surgical quarter, have ward rounds on obstetrics and gynecology on Saturdays at 8:30 A.M. Each *senior* student, during his senior surgical quarter, spends one week on the delivery floor.

Elective courses in the diagnosis and treatment of obstetric and gynecological conditions are offered for junior and senior students.

Pediatrics

W. C. Davison, *Professor of Pediatrics.*
J. M. Arena, *Assistant Professor of Pediatrics.*
†J. S. Harris, *Assistant Professor of Pediatrics and Biochemistry.*
Angus McBryde, *Assistant Professor of Pediatrics.*
A. H. London, Jr., *Associate in Pediatrics.*
S. C. Dees, *Associate in Pediatrics.*
H. N. Vandegrift, Jr., *Instructor in Pediatrics.*
A. T. S. Davison, *Assistant in Pediatrics.*
G. O. Boucher, *Assistant in Pediatrics.*
L. M. Bashinsky, Jr., *Assistant in Pediatrics.*
G. V. Andrew, *Fellow in Pediatrics.*
Guillermo Casis, *Fellow in Pediatrics.*
Gustavo Ross, *Fellow in Pediatrics.*
Mildred M. Sherwood, *Supervisor of Pediatric Nursing.*
Lola E. Page, *Supervisor of Premature Nursery.*

Each *second-year* student receives nine hours of instruction in elementary pediatrics during the course in physical diagnosis in the sixth quarter. *Junior* and *senior* students, during their medical quarters, have pediatric ward rounds on Saturdays, from 8:30 to 9:30 A.M. The *senior* students are divided into three groups, each of which spends one quarter in pediatrics. During this quarter they are assigned daily as clinical clerks on the children's ward, nursery, and pediatric dispensary; attend ward rounds at 8:30 A.M. on Mondays, Wednesdays, and Fridays; are instructed in the practical nursing of infants by Miss Sherwood on Fridays at 9:30 A.M.; and are taught the preparation of diets for infants and children by the Professor of Dietetics. Each student attends infant feeding clincs on Fridays during this quarter. On Thursdays at 11:30 A.M., the junior and senior students attend demonstrations at which the preclinical basis, as well as the clinical aspects, of disease are emphasized. *Elective courses: senior* students may assist in the treatment of pediatric patients in the syphilis clinic on Thursdays at 9:00 A.M., do research

† On active duty; U. S. Army.

work, or assist in the pediatric ward or dispensary one or more mornings per week, according to the time at their disposal.

Legal Medicine and Toxicology

J. B. BRADWAY, *Professor of Law.*
T. D. BRYSON, *Professor of Law.*
W. D. FORBUS, *Professor of Pathology.*
D. T. SMITH, *Professor of Bacteriology and Associate Professor of Medicine.*
H. M. TAYLOR, *Associate Professor of Biochemistry and Toxicology.*

This course embraces a discussion of the relation of physicians to legal criminal procedures, jurisdiction of the coroner and medical examiner, laws governing the dead human body, personal identity of the living and the dead, the medicolegal autopsy, traumatic injuries and fractures, rape, abortion, asphyxial death, homicidal, suicidal, and industrial poisoning, alcoholism, the examination of blood, stains, fibers, and the detection of malingering. The course is open to junior and senior students, and is given in alternate years. Discussions of medicolegal problems for the house staff and senior students, and joint conferences of the medical and law students also are held.

Preventive Medicine and Public Health

D. F. MILAM, *Associate in Preventive Medicine and Public Health.*
W. P. RICHARDSON, *Associate in Preventive Medicine and Public Health.*
W. J. DARBY, *Instructor in Preventive Medicine and Public Health.*
J. H. EPPERSON, *Instructor in Preventive Medicine and Public Health.*
S. H. HOPPER, *Instructor in Preventive Medicine and Public Health.*
W. B. SNOW, *Instructor in Preventive Medicine and Public Health.*
J. J. HANLON, *Lecturer in Preventive Medicine and Public Health.*
W. L. FLEMING, *Lecturer in Preventive Medicine and Public Health.*
J. J. WRIGHT, *Lecturer in Preventive Medicine and Public Health.*
M. J. ROSENAU, *Lecturer in Preventive Medicine and Public Health.*

Public Health and Hygiene. A lecture course is given in the second year to acquaint the students with general environmental sanitation including sewage disposal, water supplies, milk, and food for rural and urban communities. Vital statistics, public health regulations, and various official public health organizations also are discussed. Exercises in the epidemiology of several diseases are introduced to give the student a broad view of disease and its prevention. *Field Demonstrations.* Visits for observation and instruction are made to state, county, and city health departments, infant and school hygiene clinics, dairies, public water supplies, sewage disposal plants, and industrial establishments. Seminars are held in which the students discuss the various problems encountered in their field experience. *Preventive Medicine.* A series of lectures and exercises is given during the senior year to provide students with the preventive point of view in the practice of medicine. The problems of infant and maternal hygiene, occupational diseases, the deficiency states, and the etiology, transmission, epidemiology and prevention of communicable diseases are considered. Emphasis is placed upon the relationship of the private practitioner of medicine to the public health program. *A Laboratory Course* given in the fourth quarter by the Department of Bac-

teriology consists of the identification and virulence testing of diphtheria cultures; the isolation of stool, throat, and blood organisms; the practical examination of water; Schick, Dick, and tuberculin tests; and vaccination against typhoid-paratyphoid fever and smallpox. *Elective:* Through the co-operation of several city and county health officers, students may spend one or more weeks in observing and assisting in the operation of these public health units. Senior students may elect one month's Fellowship in Public Health in Michigan offered by the Kellogg Foundation, if they have permission from the head of the department of the quarter concerned and make up the time afterward.

CURRICULUM OF THE SCHOOL OF MEDICINE

The usual four medical school years of thirty-three weeks each have been accelerated during the war into three calendar years of forty-eight weeks each.

Every effort is made to emphasize the close relationship of preclinical and clinical instruction. Members of the Clinical Staff assist in the teaching of preclinical subjects, and demonstrate to the students of the first two years, patients whose conditions illustrate the subjects being taught. Thus, from the student's first days, he is impressed with the interdependence of all branches of the medical science. In the junior and senior years, preclinical instructors assist the Clinical Staff in presenting the underlying basis of disease.

The free time in this curriculum may be spent in elective work or anything else the student wishes to do. No credits are given, but opportunity is provided for each student on his own initiative to obtain additional training which he may feel to be necessary or desirable. Elective courses have been organized for small groups, or the time may be utilized in independent work (including research) in any department, clinical or preclinical. Arrangements for taking such courses or doing other work are to be made through the Curriculum Committee.

It is hoped that many students will migrate to other medical schools for one or more quarters. Those who wish to do so, or to substitute a program different from that listed below, must obtain permission in advance from the Curriculum Committee.

CURRICULUM OF FOUR QUARTERS OF TWELVE WEEKS EACH

(The hours for these courses will be posted on the bulletin board.)

FIRST YEAR

First Semester: April 1 to August 13, 1943.	Hours
Anatomy (including histology and neuroanatomy)	702
Second Semester: August 18 to December 20, 1943.	
Physiology and Elementary Pharmacology	396
Biochemistry	270
Psychobiology	10
Free time	26

SECOND YEAR

	HOURS
WINTER QUARTER (4th): January 3 to March 25, 1944.	
Pathology	216
Bacteriology and Parasitology	164
Free time	88
SPRING QUARTER (5th): April 3 to June 24, 1944.	
Pathology	200
Clinical microscopy	120
Public health and hygiene	48
Free time	100
SUMMER QUARTER (6th): July 3 to September 23, 1944.	
Physical diagnosis and introduction to clinical medicine	282
Advanced Pharmacology	72
Free time	114

JUNIOR YEAR

AUTUMN QUARTER (7th):* October 2 to December 23, 1944.	
Medicine (Junior)	468
WINTER QUARTER (8th):* January 1 to March 24, 1945.	
Surgery (Junior)	468
SPRING QUARTER (9th):* April 2 to June 23, 1945.	
Obstetrics and Gynecology (Junior)	384
Neuropsychiatry	84

SENIOR YEAR

	HOURS
SUMMER QUARTER (10th):* July 2 to September 22, 1945.	
Medicine (Senior)	468
AUTUMN QUARTER (11th):* October 1 to December 22, 1945.	
Surgery (Senior), including urology and orthopaedics	336
Obstetrics	132
WINTER QUARTER (12th):* January 3 to March 28, 1946.	
Pediatrics	209
Surgery	45
Final clinical examinations	24
Preventive medicine	24
Neuropsychiatry	45
Free time	121

SUMMARY

Total number of hours in curriculum 5,616

* The clinical instruction is repeated each quarter in order to utilize all the clinical material and to have small groups of students. Consequently, students may vary the order of the seventh, eighth, and ninth quarters, and also the order of the tenth, eleventh, and twelfth quarters. The above schedule merely illustrates the program of one group.

FEES AND EXPENSES

All fees for each quarter are due and payable at the beginning of each quarter, and no student will be admitted to classes until these fees have been paid at the University Treasurer's Office. A fine of $5.00 is charged for late registration. No credit will be given for any quarter in which the tuition of $150 has not been paid at the Treasurer's Office, whether the work has been done here or elsewhere, except that students who have been permitted by the Curriculum Committee to spend a quarter at another medical school or hospital may subtract the amount of tuition paid at this other medical school or hospital from the $150 due here for that quarter.

It is not advisable for a student to attempt outside work to defray his expenses; the results usually are disastrous to his health and academic standing.

Fees and Expenses

Tuition, per quarter	$150
Health Fee, per quarter	3.33
Athletic Fee, admitting student to all athletic contests held on the University campus during the quarter	5
Room-rent, per quarter* (estimated)	50
Board, per quarter (estimated)	95
Laundry, per quarter (estimated)	10 to 20
Books, per quarter (estimated)	25 to 50
Commencement and Diploma Fees**	8
National Board of Medical Examiners Fees** $25 (Part I), $20 (Part II)	
Microscope, ophthalmoscope, otoscope, and other equipment, which are required of each student and which must conform to rigid standards, may be obtained on a rental basis from the University	25 to 35
Estimated total expenses, per month	135 to 150

ANGIER B. DUKE MEMORIAL AND OTHER LOAN FUNDS

The Angier B. Duke Memorial, Incorporated, administers through an advisory committee of the officers of the University a loan fund for students. In addition, the loan funds of the W. K. Kellogg Foundation and the U. S. Office of Education of the Division of Higher Education of the Federal Security Agency are available for students who are not financially able to meet their expenses. Medical students, after their third quarter, who are ineligible for military service, may apply for loans from these sources. No scholarships are awarded in the School of Medicine. The loan funds are administered in accordance with the following regulations:

1. No loan will be made to a student who violates any of the regulations of the University or who is not doing outstanding classwork.

* Rooms may be reserved by medical students in Few Quadrangle. These rooms are provided with furniture, heat, electric light, and care of rooms; each student furnishes his own blankets, sheets, pillow-slips, towels, and pillows. Applications for rooms, accompanied by a reservation fee of $25, should be made by writing to Mr. W. E. Whitford, Duke University, Durham, N. C.

** Payable at the beginning of the quarter in which a student is eligible for a degree or examination.

2. Loans will be made only to students who are taking full courses of study that lead to a degree, and all loans must be arranged not later than one week after the beginning of a quarter.

3. Every applicant for a loan must present with the application such security as the President of the University may approve, and no money will be advanced before a note with approved security is in the hands of the Treasurer of the University.

SCHOOL OF MEDICINE STUDENTS

January 3, 1944 – September 23, 1944

	First-Year	*Second-Year*	*Junior-Year*	*Senior-Year*	*Total*	*Graduates 1932-1943*
Students	76	76	68	82	302	624

FIRST-YEAR STUDENTS (JANUARY 3, 1944-SEPTEMBER 23, 1944)

Name and Preparation — *Home Address*

Samuel Sheridan Ambrose, Jr. (N) ..... Jacksonville, N. C.
Duke University.

Charles Claiborne Blackwell, Jr. (M) ..... Wilmette, Ill.
University of Virginia;
Washington and Lee University;
Northwestern University.

Ben Vaughan Branscomb (N) ..... Durham, N. C.
Duke University.

William Lester Brooks, Jr. (N) ..... Charlotte, N. C.
Princeton University.

James Robert Browning (N) ..... Windber, Pa.
Duke University.

John Ralph Burgess, Jr. (A) ..... Missoula, Mont.
Montana State University.

James Ryan Chandler (A) ..... Daytona Beach, Fla.
Duke University.

Sherman Dockray Clark (N) ..... New York, N. Y.
Duke University.

Thomas Carlaw Clifford (A) ..... Shipman, Va.
Yale University.

Raphael Woodward Coonrad (N) ..... Evans City, Pa.
Davidson College.

Henry Hitt Crane, Jr. ..... Detroit, Mich.
Duke University.

Thomas Barker Dameron, Jr. (N) ..... Goldsboro, N. C.
The Citadel;
Duke University;
University of North Carolina.

Atala Jane Scudder Davison ..... Durham, N. C.
Barnard College;
Duke University;
Swarthmore College.

James Charles Dawson, Jr. (N) ..... San Francisco, Calif.
San Francisco Junior College;
University of San Francisco.

Albert W. Farley, Jr. (A) ..... Bay City, Mich.
University of Michigan;
Duke University.

Blake Fawcett (N) ..... Alderson, W. Va.
Duke University.

Tom Bruce Ferguson (A) ..... Tulsa, Okla.
Duke University.

Paul Gardner Fillmore (A) ..... Provo, Utah
Brigham Young University.

(A) Indicates Private First Class in the Army Specialized Training Program. (N) Indicates Apprentice Seaman in the Navy V-12(S) Program. (U) Indicates commission as Assistant Surgeon in the U.S.P.H.S. Reserve. (V) Indicates commission as Ensign H-V(P), U.S.N.R. (M) Indicates commission as Second Lieutenant, Medical Administrative Corps, A.U.S.

Name and Preparation — *Home Address*

Herman Field Froeb (A) ..... Forest Hills, N. Y.
Princeton University.

Joseph Platt Gutstadt (N) ..... Chicago, Ill.
University of Chicago;
Duke University.

Rufus Roberts Hambright (N) ..... Grover, N. C.
Mars Hill Junior College;
Duke University.

Robert Slotterback Keller (N) ..... Lavelle, Pa.
Duke University.

Dwight Talmadge Kernodle (A) ..... Elon College, N. C.
Elon College.

William Arnold Lambeth, Jr. (N) ..... Asheville, N. C.
Duke University.

George Festus Latimore, Jr. (N) ..... Kings Mountain, N. C.
Duke University.

Robert Oscar Lipe (N) ..... Albemarle, N. C.
Duke University.

Donald Stanley Littman (N) ..... Sunnyside, L. I., N. Y.
Duke University.

Frank Henry Longino (N) ..... Texarkana, Ark.
Duke University.

Ralph Taylor McCauley (A) ..... Roderfield, W. Va.
Virginia Polytechnic Institute.

John Marshall McCoy (N) ..... Charlotte, N. C.
Erskine College.

Robert Ligon McWhorter, Jr. (N) ..... Athens, Ga.
University of Georgia;
Emory University.

Robert Pickens Marshall (N) ..... Washington, D. C.
Duke University.

John Edward Masterson (A) ..... University Heights, Ohio
Adelbert College of Western Reserve University.

William Thomas Mayer (A) ..... Shelby, Ohio
Adelbert College of Western Reserve University.

Loren Valmore Miller (N) ..... Yonkers, N. Y.
Concordia Collegiate Institute;
Duke University.

John Robert Morris (N) ..... Youngstown, Ohio
Duke University.

Donald Robertson Mundie (N) ..... Kenmore, N. Y.
Duke University.

William Parry Murphy, Jr. ..... Brookline, Mass.
Harvard College.

Henry Hale Nicholson, Jr. (A) ..... Statesville, N. C.
Duke University.

Sherman Homer Pace (N) ..... St. Petersburg, Fla.
Duke University.

Grover Smith Patterson (N) ..... Kannapolis, N. C.
Catawba College.

(A) Indicates Private First Class in the Army Specialized Training Program. (N) Indicates Apprentice Seaman in the Navy V-12(S) Program. (U) Indicates commission as Assistant Surgeon in the U.S.P.H.S. Reserve. (V) Indicates commission as Ensign H-V(P), U.S.N.R. (M) Indicates commission as Second Lieutenant, Medical Administrative Corps, A.U.S.

Name and Preparation — *Home Address*

Robert Franklin Poole, Jr. (A) ..... Clemson, S. C.
The Clemson Agricultural College.

Rhea Sutphen Preston (A) ..... Pontotoc, Miss.
Davidson College.

William Watkins Pryor (A) ..... Oxford, N. C.
Wake Forest College.

Frederick Ramsay Ritzinger, Jr. (N) ..... St. Paul, Minn.
University of Washington.

Harry Campbell Sammons ..... Marietta, Ohio
Marietta College.

Guy Phillip Sharpe, Jr. (N) ..... Tchula, Miss.
Tulane University;
University of Colorado;
Vanderbilt University.

Kenneth Sihler Shepard (A) ..... Chicago, Ill.
Duke University.

James Loughrey Smeltzer (N) ..... Youngstown, Ohio
Western Reserve University;
Duke University.

Ernest Wendell Smith (N) ..... Charlotte, N. C.
Duke University.

Stuart Cameron Smith (A) ..... Staten Island, N. Y.
Duke University.

Dorothy Dair Snyder ..... Dover, Ohio
Duke University.

LeRoy Everett Talcott, Jr. (N) ..... Hartford, Conn.
Princeton University.

Allen Taylor (A) ..... Greenville, N. C.
Duke University.

James Robert Teabeaut, II (A) ..... Fayetteville, N. C.
Duke University.

Jack Lamkin Teasley (N) ..... St. Albans, W. Va.
Duke University.

Robert Hicks Thompson (N) ..... Dublin, Ga.
Clemson College;
Duke University.

William West Thompson (A) ..... Hallsboro, N. C.
Wake Forest College;
Duke University.

Willis Herbert Thornburg (A) ..... New York, N. Y.
Duke University.

Silas Owens Thorne, Jr. (N) ..... Charlotte, N. C.
Duke University.

Frederick Cleverly Vogell (A) ..... Wilmore, Ky.
Asbury College.

William Charles Wansker (N) ..... Macon, Ga.
Duke University.

Joseph Major Ward (N) ..... Robersonville, N. C.
University of North Carolina.

Norma Ware ..... Macon, Ga.
Duke University.

Harry Leon Wechsler (N) ..... McKeesport, Pa.
Duke University.

Milton Weinberg, Jr. (N) ..... Sumter, S. C.
Duke University.

(A) Indicates Private First Class in the Army Specialized Training Program. (N) Indicates Apprentice Seaman in the Navy V-12(S) Program. (U) Indicates commission as Assistant Surgeon in the U.S.P.H.S. Reserve. (V) Indicates commission as Ensign H-V(P), U.S.N.R. (M) Indicates commission as Second Lieutenant, Medical Administrative Corps, A.U.S.

Name and Preparation — *Home Address*

Robert Cooper Welsh (N) ..... Miami, Fla.
Duke University.

Elmer Stone West, Jr. (N) ..... Mayslick, Ky.
Cumberland Junior College;
University of Richmond.

David Craig White (A) ..... Englewood, N. J.
Duke University.

Lawrence Jack Wilchins (A) ..... Cincinnati, Ohio
Duke University.

Roger Davis Williams (A) ..... Charlotte, N. C.
Duke University.

Leo Hughes Wilson, Jr. (N) ..... Bradenton, Fla.
University of Florida;
Duke University.

William Preston Wilson (A) ..... Durham, N. C.
Campbell Junior College;
Duke University.

John Lemuel Wooten (A) ..... Greenville, N. C.
Duke University.

Richard Nickles Wrenn (N) ..... Anderson, S. C.
Duke University.

John Engler Zeliff, Jr. (N) ..... Youngsville, Pa.
Pennsylvania State College;
Duke University.

SECOND-YEAR STUDENTS (JANUARY 3, 1944-SEPTEMBER 23, 1944)

Harry Sholar Allen, Jr. (A) ..... Florence, S. C.
Davidson College.

Clarence Leonidas Anderson (A) ..... Tampa, Fla.
Davidson College.

Reid Hogan Anderson (A) ..... Pullman, Wash.
State College of Washington.

Robert Harper Anderson (A) ..... Wilson, N. C.
Duke University.

Dorothy Clarke Armstrong ..... Port Arthur, Ontario, Canada
Port Arthur Collegiate;
Tufts College.

James Guernsey Bassett (A) ..... Port Huron, Mich.
Port Huron Junior College;
University of Michigan.

Ritchie Hugh Belser (A) ..... Columbia, S. C.
The Citadel.

Alfred Seymour Berne (A) ..... Woodhaven, N. Y.
Duke University.

Richard Titsworth Binford (U) ..... Marion, N. C.
Guilford College;
University of North Carolina.

Richard Calvin Bishop (N) ..... St. Petersburg, Fla.
Duke University.

Alexander White Boone, Jr. (A) ..... Pennsgrove, N. J.
Duke University.

Paul Brazeau (N) ..... St. Petersburg, Fla.
St. Petersburg Junior College;
Vanderbilt University;
Duke University.

(A) Indicates Private First Class in the Army Specialized Training Program. (N) Indicates Apprentice Seaman in the Navy V-12(S) Program. (U) Indicates commission as Assistant Surgeon in the U.S.P.H.S. Reserve. (V) Indicates commission as Ensign H-V(P), U.S.N.R. (M) Indicates commission as Second Lieutenant, Medical Administrative Corps, A.U.S.

Name and Preparation — *Home Address*

William Richard Brink (A) ..... Williamsport, Pa.
Williamsport Dickinson Junior College;
Pennsylvania State College;
Harvard University.

Thomas Ray Broadbent (A) ..... Heber, Utah
Brigham Young University.

John Burton Bryan (N) ..... St. Petersburg, Fla.
St. Petersburg Junior College;
Duke University.

Frank Highsmith Campbell (N) ..... Durham, N. C.
Duke University.

Ralph Ingersoll Cottle, Jr. (N) ..... Warren, Ohio
Duke University.

Robert Edwin Crompton (A) ..... Toronto, Ontario, Canada
University of Toronto;
University of Toronto Medical School, 1940-1942.

John Murdoch Crowell (A) ..... Chattanooga, Tenn.
University of Chattanooga.

Frank Willard Davis, Jr. (A ..... Biltmore, N. C.
Duke University.

John Wesley DeReamer (A) ..... Morrisville, Pa.
Duke University.

Elaine G. Fichter ..... West Hazleton, Pa.
Maryville College.

Zenas Waldo Ford, Jr. (A) ..... Fayetteville, Ark.
University of Arkansas.

Saul Arnold Frankel (A) ..... Woodmere, L. I., N. Y.
Yale University.

Walter Houseal Goggans (A) ..... Newberry, S. C.
Clemson College.

James Boyd Golden (N) ..... Greenfield, Mass.
Duke University.

Everett Richard Harrell, Jr. (N) ..... Birmingham, Mich.
Duke University;
Ohio Wesleyan.

Edward Gustavus Haskell, Jr. (N) ..... Jacksonville, Fla.
The Citadel.

Charles Tracy Henderson (A) ..... Morris, Ind.
Duke University.

William N. Henderson (A) ..... Maplewood, N. J.
New York University;
Duke University.

Thomas Alfred Hockman (N) ..... Kalamazoo, Mich.
University of Cincinnati;
Duke University.

David Smith Hubbell (A) ..... Durham, N. C.
Duke University.

Carlos Lee Hudson (A) ..... Urbana, Ill.
University of Illinois.

Ralph Herlinger Jamison (N) ..... Warren, Ohio
Western Reserve University;
Duke University.

Joseph Kempton Jones (N) ..... Salisbury, N. C.
Duke University.

(A) Indicates Private First Class in the Army Specialized Training Program. (N) Indicates Apprentice Seaman in the Navy V-12(S) Program. (U) Indicates commission as Assistant Surgeon in the U.S.P.H.S. Reserve. (V) Indicates commission as Ensign H-V(P), U.S.N.R. (M) Indicates commission as Second Lieutenant, Medical Administrative Corps, A.U.S.

Name and Preparation	*Home Address*
Thomas Francis Kelley (A) *Massachusetts State College;* *University of California.*	Waltham, Mass.
Grace P. Kerby *Florida State College for Women;* *Johns Hopkins University.*	Miami, Fla.
Henry Irving Kohn (A) *Dartmouth College;* *Harvard University.*	Durham, N. C.
Ethen Sease Koon, Jr. (N) *Biltmore College;* *Mars Hill College;* *Duke University.*	Asheville, N. C.
Duval Holtzclaw Koonce (A) *Duke University.*	Chadbourn, N. C.
Thomas Howard Lewis (N) *University of Washington.*	Seattle, Wash.
Carmine Keith Lyons (N) *Duke University.*	Charleston, W. Va.
Walter Anderson McLeod, Jr. (N) *St. Petersburg Junior College;* *Duke University.*	St. Petersburg, Fla.
John Guy Maines, Jr. (N) *Duke University.*	Ossining, N. Y.
John Cohen Maxwell (N) *Duke University.*	New York, N. Y.
Paul Lanier Ogburn (A) *Canadian Academy;* *Duke University.*	Charlotte, N. C.
Harold Monroe Peacock (N) *University of North Carolina.*	Benson, N. C.
Robert Lloyd Pinck (A) *Washington and Lee University.*	Paterson, N. J.
Ralph Waldo Powell (N) *Duke University.*	Avondale Estates, Ga.
James Warren Rogers (N) *University of Georgia.*	Cleveland Heights, Ohio
William Evans Rowe, Jr. (A) *University of Texas.*	Austin, Tex.
Evan Weible Schear (A) *Otterbein College.*	Westerville, Ohio.
John Edgar Scheid, Jr. (N) *Westminster College.*	Brackenridge, Pa.
Guy Walter Schlaseman (A) *Duke University.*	Lansford, Pa.
Paul Henry Sherman (N) *Alabama Polytechnic Institute;* *Duke University.*	Baltimore, Md.
Alwyn Abraham Shugerman (A) *Birmingham-Southern College;* *University of Alabama.*	Birmingham, Ala.
Homer Alden Sieber (A) *Roanoke College.*	Roanoke, Va.

(A) Indicates Private First Class in the Army Specialized Training Program. (N) Indicates Apprentice Seaman in the Navy V-12(S) Program. (U) Indicates commission as Assistant Surgeon in the U.S.P.H.S. Reserve. (V) Indicates commission as Ensign H-V(P), U.S.N.R. (M) Indicates commission as Second Lieutenant, Medical Administrative Corps, A.U.S.

Name and Preparation — *Home Address*

John Delabarre Staub (N) ..... Houston, Tex.
Rice Institute;
Texas University.

Richard Marks Stitt (N) ..... Warren, Ohio
Pennsylvania State College;
Denison University.

Thomas Bayton Suiter, Jr. (A) ..... Rocky Mount, N. C.
Duke University.

Richard Earl Symmonds (N) ..... Memphis, Mo.
Central College.

Lloyd McCully Taylor (N) ..... Maryville, Tenn.
Maryville College.

James Richard Thistlethwaite (A) ..... Richmond, Va.
University of Virginia.

Frederick Arrowood Thompson, Jr. (A) ..... Lenoir, N. C.
University of North Carolina.

Robert Gordon Thompson (A) ..... Durham, N. C.
Duke University.

Malcolm Paul Tyor (N) ..... Jamaica, N. Y.
University of Wiseonsin.

E. Henry Valentine ..... Macon, Ga.
Mereer University.

Joseph Emmett Walthall, III (A) ..... Athens, W. Va.
Greenbrier Military Sehool;
West Virginia University.

Lewis William Wannamaker (A) ..... St. Matthews, S. C.
Emory University.

E. Charles Wayland (N) ..... Piedmont, Mo.
Central College.

Bailey Daniel Webb ..... Oxford, N. C.
Greensboro College;
University of North Carolina.

James Foster Williamson (N) ..... Columbia, S. C.
Clemson College.

Dan Hall Willoughby (A) ..... Jackson, Miss.
University of Mississippi;
Duke University.

John Cummings Withington (A) ..... Savannah, Ga.
Duke University.

Frank Reece Wrenn (N) ..... Anderson, S. C.
Duke University.

Jack Dunn Wycoff (N) ..... Springfield, Ky.
The Citadel.

JUNIOR STUDENTS (JANUARY 3, 1944-SEPTEMBER 23, 1944)

Byron Michel Bloor (N) ..... Moscow, Idaho
University of Idaho;
University of Washington;
University of Idaho.

Richard Edwin Boger (N) ..... Charlotte, N. C
Duke University.

Jay Olsen Brinton (A) ..... Salt Lake City, Utah
Westminster Junior College;
Eastern Kentucky State Teachers College;
University of Idaho.

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Name and Preparation — *Home Address*

William Armstead Brooks, III (A) ..... Dallas, Tex.
Duke University.

Walter Jordan Brower (A) ..... New York, N. Y.
University of Alabama.

Carrel Mayo Caudill (A) ..... Pearisburg, Va.
Duke University.

Arthur Edward DeNio, Jr. (A) ..... Detroit, Mich.
Duke University.

Hugh Dortch, Jr. (A) ..... Goldsboro, N. C.
University of North Carolina;
University of North Carolina Medical School, 1942-1943.

Elizabeth Jean Dubs ..... Durham, N. C.
Duke University.

Adolphus William Dunn (N) ..... Leaksville, N. C.
Wake Forest College.

Ralph Gerald Eaker (A) ..... Lawndale, N. C.
Wofford College.

John Richard Emlet (N) ..... Hanover, Pa.
Dickinson College.

James Edward Farley, Jr. (M) ..... Durham, N. C.
Duke University.

Charles Shirey Flynn (A) ..... Bluefield, W. Va.
Bluefield Junior College;
Duke University.

Frederick Clare Hanson (N) ..... Geneva, Ill.
University of Illinois;
University of Wisconsin.

Benedict Harrow (A) ..... Pittsfield, Mass.
Duke University.

Willis Holland Hodges, Jr. (A) ..... Columbus, Ohio
Ohio State University.

Bruce Charles Holman (N) ..... Bainbridge, N. Y.
Hamilton College;
Duke University.

Earl Pendleton Holt, Jr. (A) ..... Oak Ridge, N. C.
Oak Ridge Military Institute;
Duke University.

Thomas Ruffin Hood (N) ..... Smithfield, N. C.
Mars Hill Junior College;
Duke University.

Louis Moffitt Howell (A) ..... Jacksonville, Fla.
University of Florida.

Beverly N. Jones, Jr. (A) ..... Winston-Salem, N. C.
Virginia Polytechnic Institute.

Stanley Jay Kallman (A) ..... New York, N. Y.
University of North Carolina.

Seymour Robert Kaplan (N) ..... Brooklyn, N. Y.
Brooklyn College;
Duke University.

Alfred Robert Kessler (N) ..... Astoria, N. Y.
Fordham University.

Victor Henry Knight, Jr. (N) ..... Tampa, Fla.
Duke University.

(A) Indicates Private First Class in the Army Specialized Training Program. (N) Indicates Apprentice Seaman in the Navy V-12(S) Program. (U) Indicates commission as Assistant Surgeon in the U.S.P.H.S. Reserve. (V) Indicates commission as Ensign H-V(P), U.S.N.R. (M) Indicates commission as Second Lieutenant, Medical Administrative Corps, A.U.S.

Name and Preparation — *Home Address*

Emery Thomas Kraycirik (V) ..... Windber, Pa.
Franklin and Marshall Academy;
Lenoir-Rhyne College.

Ullin Whitney Leavell, Jr. (A) ..... Nashville, Tenn.
Vanderbilt University.

Charles William Lewis, Jr. (N) ..... Greensboro, N. C.
Guilford College.

William Figgatt Lovell (N) ..... Raleigh, N. C.
North Carolina State College;
Duke University.

James Dwight Lutz (N) ..... Shelby, N. C.
Duke University.

John Niel McClure, Jr. (A) ..... Palmetto, Fla.
Duke University.

Hugh McCulloch, Jr. (A) ..... St. Louis, Mo.
Washington and Lee University.

Frank Watt McCune (A) ..... McKeesport, Pa.
Duke University.

John P. McGovern (A) ..... Washington, D. C.
Duke University.

A. Ziegler McPherson (A) ..... Little Rock, Ark.
University of Oklahoma;
University of Arkansas.

James Thompson Metzger (N) ..... Pittsburgh, Pa.
Loomis Institute;
University of Pittsburgh.

Lowell Stephen Miller (N) ..... Asheville, N. C.
Mars Hill College;
Duke University.

Oscar McLendon Mims (N) ..... Florence, S. C.
University of South Carolina.

Thomas Joseph Moore (A) ..... Bronxville, N. Y.
Duke University.

Herbert Leon Newbold, Jr. (A) ..... Newport News, Va.
College of William and Mary;
Duke University.

Richard Milton Paddison (A) ..... Savannah, Ga.
Duke University.

Herbert William Park, III (N) ..... Greensboro, N. C.
Guilford College;
George Washington University;
University of North Carolina;
University of North Carolina School of Medicine, 1942-1943.

Benjamin Jackson Philips, Jr. (A) ..... Jacksonville, Fla.
Davidson College.

Alfred Rowland Pittman, Jr. (N) ..... Lumberton, N. C.
North Carolina State College;
Wake Forest College.

Grover Duckett Poole (N) ..... Raleigh, N. C.
Duke University.

Robert Barclay Ragland (M) ..... Jacksonville, Fla.
Virginia Military Institute;
University of Colorado;
University of Florida.

Clarence Lee Ruffin (A) ..... Tarboro, N. C.
University of North Carolina.

(A) Indicates Private First Class in the Army Specialized Training Program. (N) Indicates Apprentice Seaman in the Navy V-12(S) Program. (U) Indicates commission as Assistant Surgeon in the U.S.P.H.S. Reserve. (V) Indicates commission as Ensign H-V(P), U.S.N.R. (M) Indicates commission as Second Lieutenant, Medical Administrative Corps, A.U.S.

Name and Preparation — *Home Address*

Edwin Robert Ruskin (A) ..... New Rochelle, N. Y.
Duke University.

Robert McCurdy Russell (A) ..... Burgettstown, Pa.
Duke University.

Harold St. John (A) ..... Washington, D. C.
Northwestern University.

William Benjamin Schwartz, Jr. (A) ..... Woodmere, N. Y.
Duke University.

Murray Bernard Sheldon, Jr. (A) ..... Roselle Park, N. J.
Duke University.

Stephen David Smith (A) ..... Rome, Ga.
University of Georgia.

Thoburn Rudolph Snyder, Jr. (N) ..... Mount Pleasant, Pa.
Duke University.

Edward John Stainbrook (M) ..... Durham, N. C.
Allegheny College;
Catholic University;
Duke University.

William Sinclair Stewart, IV (N) ..... Charlotte, N. C.
Duke University.

Wingate Elwood Swain (A) ..... Shallotte, N. C.
Wake Forest College.

Frederick Harvey Taylor (N) ..... High Point, N. C.
Guilford College.

Paul Claytor Thompson (N) ..... Reidsville, N. C.
Duke University.

Bennie Vatz (A) ..... Kinston, N. C.
Eastern Carolina Teachers College;
University of North Carolina.

Carl Marvin Voyles, Jr .(A) ..... Williamsburg, Va.
College of William and Mary.

William Thurman Watkins, Jr. (N) ..... Newport News, Va.
Duke University.

William D. Weber (A) ..... Erie, Pa.
University of Pittsburgh;
Duke University.

Samuel Gould Welborn (A) ..... Lexington, N. C.
Davidson College.

Hayes MacMurry White, Jr. (A) ..... Raleigh, N. C.
Duke University.

Walter Barron Withers (A) ..... Chapel Hill, N. C.
University of North Carolina.

Robert Clifford Wulfman (N) ..... Huntington, W. Va.
Marshall College.

SENIOR STUDENTS (JANUARY 3, 1944-SEPTEMBER 23, 1944)

Robert James Atwell ..... Chillicothe, Ohio
Duke University.

Horace Mitchell Baker, Jr. (M) ..... Lumberton, N. C.
University of North Carolina.

Frank Louis Beckel (M) ..... Huntingdon, Pa.
Duke University.

Walter Russell Benson (A) ..... Tamaqua, Pa.
Duke University.

(A) Indicates Private First Class in the Army Specialized Training Program. (N) Indicates Apprentice Seaman in the Navy V-12(S) Program. (U) Indicates commission as Assistant Surgeon in the U.S.P.H.S. Reserve. (V) Indicates commission as Ensign H-V(P), U.S.N.R. (M) Indicates commission as Second Lieutenant, Medical Administrative Corps, A.U.S.

Name and Preparation — *Home Address*

Charles Marvin Blackburn (M) ..... Ada, Okla.
University of Oklahoma.

Jack Holland Boatman (N) ..... Okmulgee, Okla.
University of Oklahoma.

Jacob Thompson Brasher, Jr. (N) ..... Milton, N. C.
Lees-McRae College;
Maryville College.

Joseph Dondiego Brenna (A) ..... Trenton, N. J.
Duke University.

Robert Alexander Broome, Jr. (A) ..... Rocky Mount, N. C.
Duke University.

Banks Raleigh Cates, Jr. (N) ..... Charlotte, N. C.
Davidson College;
Duke University.

Robert George Chambers (V) ..... New York, N. Y.
Duke University.

William Alan Chickering (A) ..... Chicago, Ill.
Duke University.

John Pope Collins (A) ..... Blackfoot, Idaho
Duke University.

Richard Grigsby Connar (A) ..... Rutherford, N. J.
Duke University.

Gerald Edwin Cronk (A) ..... Tulsa, Okla.
Tulsa University.

Robert Thomas Cronk (A) ..... Tulsa, Okla.
Tulsa University.

Martin Marc Cummings (A) ..... Glassboro, N. J.
Bucknell University.

Arthur Markham Dalton (A) ..... Toledo, Ohio
Purdue University;
Duke University.

William Hersey Davis, Jr. (A) ..... Louisville, Ky.
Mars Hill College;
Duke University.

William Townsend Davison (A) ..... Durham, N. C.
Yale University.

Carleton Cecil Douglass (M) ..... Newark, Del.
University of Delaware.

Henry Martin Dratz ..... Lynbrook, N. Y.
Duke University.

Stuart Reiley Ducker, Jr. (N) ..... Fort Thomas, Ky.
Yale University.

Howard Casey Duckett, Jr. (A) ..... Durham, N. C.
Emory University;
Duke University.

Ernest Goodall Edwards, Jr. (N) ..... Columbia, S. C.
Clemson College.

William Preston Featherstone (A) ..... Durham, N. C.
Duke University.

Bernard Frank Joseph Fetter (M) ..... Baltimore, Md.
Johns Hopkins University.

William Joseph Edward Fetter (V) ..... Baltimore, Md.
Johns Hopkins University.

Dorothy Grace Finley ..... Decatur, Ala.
University of Alabama;
University of Alabama School of Medicine, 1941-1942.

(A) Indicates Private First Class in the Army Specialized Training Program. (N) Indicates Apprentice Seaman in the Navy V-12(S) Program. (U) Indicates commission as Assistant Surgeon in the U.S.P.H.S. Reserve. (V) Indicates commission as Ensign H-V(P), U.S.N.R. (M) Indicates commission as Second Lieutenant, Medical Administrative Corps, A.U.S.

Name and Preparation *Home Address*

George Francis Fordham (M) ..... Powellton, W. Va.
Georgetown University.

Richard Edmond Lee Fowler (A) ..... Marion, Miss.
University of Mississippi;
University of Mississippi School of Medicine, 1942-1943.

Truett Hollis Frazier (N) ..... Asheboro, N. C.
Mars Hill College;
Duke University.

Anneva French ..... Bristol, Va.
King College.

Wilton George Fritz (A) ..... Ridgewood, N. J.
Duke University.

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(A) Indicates Private First Class in the Army Specialized Training Program. (N) Indicates Apprentice Seaman in the Navy V-12(S) Program. (U) Indicates commission as Assistant Surgeon in the U.S.P.H.S. Reserve. (V) Indicates commission as Ensign H-V(P), U.S.N.R. (M) Indicates commission as Second Lieutenant, Medical Administrative Corps, A.U.S.

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THE SCHOOL OF FORESTRY



ANNOUNCEMENTS FOR 1944-45

DURHAM, NORTH CAROLINA
1944

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and will be supplied upon request.

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FORESTRY IN DUKE UNIVERSITY

GENERAL STATEMENT

Duke University, located at Durham, North Carolina, comprises Trinity College, the Woman's College, the College of Engineering, the Graduate School of Arts and Sciences, the Divinity School, and the professional schools of Forestry, Law, Medicine, and Nursing. Nearly every state of the Union and several nations are represented in the student body of more than thirty-six hundred, not including the enrollment in the Summer Session.

The University goes back in its origin to 1838, when Union Institute was founded in Randolph County by the Methodists and Friends. In 1851 the institution became Normal College, one of the first schools in America for the training of teachers. In 1859 the name was changed to Trinity College and so continued until 1924, when the College became a part of Duke University.

By virtue of an indenture of trust, executed December 11, 1924, by James Buchanan Duke, a great benefaction was placed at the disposal of humanity by providing for hospitalization, church work in rural communities, and education. The principal feature of the educational provision was the creation of Duke University.

The University occupies two campuses. The Woman's College campus, with its 108 acres, was formerly the campus of Trinity College. About a mile to the west are the new units of the University. The new campus, totaling 467 acres, also known as the West Campus, was first occupied in September, 1930.

Forestry in Duke University began early in 1931, when, through placing the Duke Forest under intensive management for forestry purposes, a substantial beginning was made in laying the foundations for educational work and research in forestry.

An academic-forestry curriculum, designed for students intent upon pursuing the study of forestry, particularly as a profession after graduation, was organized in Trinity College of Duke University in 1932 (see *Announcement on Undergraduate Instruction in Duke University*). This four-year course of study provides only for instruction in fundamental and auxiliary subjects basic to a proper understanding of the highly specialized work in technical forestry. Duke University offers no professional degree in technical forestry available to undergraduates.

Training in technical forestry leading to the professional degrees, Master of Forestry and Doctor of Forestry, is offered in the School of Forestry, and is open to all graduates of the pre-forestry curriculum in Trinity College and to graduates of recognized scientific schools or colleges, universities, and professional schools of forestry.

Duke University is also prepared to offer, through the Graduate School of Arts and Sciences, graduate work in the more scientific aspects of forestry leading to the Master of Arts and Doctor of Philosophy degrees. This work is available to graduates of schools of forestry of recognized standing, and to college or university graduates holding the Bachelor's degree with their major work in appropriate scientific subjects. Undergraduate subjects which the college student, who does not have forestry training but who is contemplating work toward either degree in forestry, should take in preparation for this work may be illustrated as follows: at least two full years in botany, including general morphology or anatomy, the taxonomy, physiology, and ecology of plants; at least one course in zoology or general biology; courses in chemistry, physics, geology, economics, mathematics; and at least two years of French or German.

Several staff members of the Appalachian Forest Experiment Station are engaged in co-operative research projects in the Duke Forest. Specialists from this station and other prominent members of the U. S. Forest Service and representatives of forest and wood-using industries give occasional scheduled lectures at the School.

EDUCATIONAL FACILITIES

The School of Forestry is located partly in Few Quadrangle and partly in the Biology Building along with the Departments of Botany and Zoology. The administrative offices, two classrooms, and the forest mensuration and statistical laboratory are in Few Quadrangle, while other laboratories and offices and the School Library are in the Biology Building. The Biology Building contains, in addition to classrooms, laboratories, and offices, a library, three refrigerated rooms, an incineration room, a workshop, and eight dark-rooms. The School is provided with instruments and tools for use in both field and laboratory work in silvics, silviculture, and forest mensuration. Modern surveying instruments and accessory equipment are available for work in forest surveying.

Laboratories for work in wood anatomy and properties are provided with microtechnique and photomicrographic instruments, wood-working machinery, a Henderson dry kiln, and a 50,000-pound Olsen Universal timber-testing machine. A modern forest soils laboratory equipped for physical and chemical studies is available. In the field of seasoning and preservation of wood a commercial-sized, single-compartment dry kiln and a fully equipped experimental pressure treating cylinder are available for instruction and research.

Facilities are also available for advanced work in plant physiology, plant anatomy, plant taxonomy, genetics, plant ecology, plant pathology, and the several branches of zoology. Many rooms in the Biology Building are equipped with vacuum, compressed air, direct and alternating electric current, gas, and running water.

The forestry section of the Library contains a growing collection of material on forestry, soils, and closely related subjects. It includes im-

portant books and periodicals in English and in French, German, and certain other foreign languages. The Library is well provided with American material, including Federal and State documents and reports. Over 150 periodicals and serials of importance in forestry and related fields are received by subscription or exchange.

Greenhouses, connected to the Biology Building through a soil-storage and work room, provide adequate space for experimental work.

A nursery has been established by the University for the joint use of the Sarah P. Duke Floral Garden, the Botany Department, and the School of Forestry. The forestry section of this nursery is used mainly for the growing of planting stock for the Arboretum and trees needed for research or other special purposes.

THE DUKE FOREST

The Duke Forest, located in Durham and Orange counties, North Carolina, consists of three main units; namely, the Durham, New Hope Creek, and Hillsboro divisions. Early in the development of Duke University it was recognized that the possession of such an area offered an unusual opportunity for the development of educational work in forestry.

Situated on the lower Piedmont plateau at elevations ranging from 280 to 650 feet, and composed of second-growth shortleaf and loblolly pines, oak, gum, hickory, maple, yellow poplar, ash, and other hardwoods, the Forest is representative of the various types of timber growth found throughout the region. Over a hundred different species of trees are found within or near the Forest. The land is rolling and there is relatively little rock outcrop, swamp, or other land of low productivity for timber growing. The total area of the Forest proper, exclusive of the University campus, is approximately six thousand acres.

In developing the Duke Forest the following objectives are being emphasized:

1. Demonstration of the various methods of timber growing, silvicultural treatment, and forest management applicable to the region.

2. Development as an experimental forest for research in the problems of timber growing and in the sciences basic thereto. In spite of the present timber situation and the accompanying economic ills, the technical and scientific knowledge required to handle forest crops efficiently on a permanent basis is still largely lacking. The Duke Forest affords a place where investigations may be carried on to augment this knowledge for the large region of which the local forest and soil conditions are representative.

3. To serve as an outdoor laboratory where field work can be carried on by forestry students under the guidance of the Forestry Faculty. One of the most difficult problems in forestry education is to bring the students into contact with the realities of professional activities. With all operations in the Forest, both routine and investigative, recorded an-

nually, it is possible for a qualified man to get in a short time a degree of practical knowledge or technical expertness which only an organized forest can provide.

The Duke Forest is particularly well located to serve as a field laboratory, since most of it is adjacent and easily accessible to the University campus. In fact, the Durham Division practically surrounds the West Campus, which was laid out in one corner of the Forest. A paved State highway runs lengthwise through the Durham Division, and several good roads cross the Forest. About fifteen miles of improved woods roads make all parts of the Forest readily accessible. A five-minute walk will take one well into the Forest, and any part of the Durham or New Hope Creek divisions can be reached by automobile in from ten to twenty minutes. At few other places in America can be found provision for forestry training and research which includes the necessary forest literally at the door of a large university with its instructional, laboratory, and library facilities.

Although the Forest has been but recently organized, considerable progress has been made toward carrying out the principal objectives recognized at the outset.

Most of the 1,286 acres of open land is, or until recently has been, cultivated. Open land which is not restocking naturally to forest trees is being planted. Here students have an opportunity to study at first hand the results of many experimental plantations prepared for them in advance. Arbitrarily by mixing species and varying the spacing between the trees in the plantations now being made, the foundation is laid for future research into many perplexing problems, such as species relationships and requirements, the most desirable spacing and species to use in this region, and the survival and relative rates of growth of the different species of trees.

Over sixty permanent sample plots, ranging in size from one-tenth acre to one acre, have been laid out in the Forest to study various problems. The plots are distributed through all the forest types, and range in purpose from studies of the effects of various silvicultural practices to studies of rates of growth and yields of the different timber types. More plots are being established as rapidly as time and funds will permit. Accurate records are kept on all this work, which will provide excellent material for student research. In the future many of these plots can also be used to demonstrate desirable forestry practices.

The work of putting the Forest under intensive management is well under way. A complete inventory of the Forest has been made, and tabulations showing the present volume and annual growth of each separate timber stand are at hand. A forest type and timber stand map for each of the three divisions has also been completed. Each division has been subdivided into permanent compartments, and recommendations for the silvicultural treatment of the separate stands in each compartment, to be embodied in a management plan, are being formulated. Cutting opera-

tions within the limits of annual growth are being carried on, and as markets for definite products are developed or expanded, such operations will be increased. To date, approximately 830 acres in the pine types have been thinned. These thinnings serve the dual purpose of contributing to the operation of the Forest as a going business and of demonstrating sound forestry practices. An efficient fire protection organization has been developed in co-operation with the State and Federal governments, and forest fire losses are being held to a minimum. In managing the Forest, public recreation activities are recognized. Several recreation areas have been established, and over fifteen thousand picnickers, hikers, and horseback riders use the area annually. The Durham and New Hope Creek divisions of the Forest, together with several hundred acres of neighboring privately owned land, are incorporated in an Auxiliary State Game Refuge to give the necessary protection which will ultimately result in an increased amount of game in the surrounding territory. Records are being maintained of all activities in the Forest, and these records will become increasingly useful as they are improved as a result of further experience and research. With the diversification and expansion of activities now going on, students have an opportunity to study an operating forest in all its phases and to obtain a grasp of the proper balance between theory and practice.

The Forest is admirably located for research in forest soils. An unusually large number of different soil conditions occur in the Forest because of the diversity of parent rock, topography, and past land culture. Major soil differences are due to the nature of the parent material which includes the basic rock of the Carolina Slate formation, granites, Triassic sedimentary rock, and many types of basic intrusives.

An exceptionally good opportunity exists for the conduct of forest research by graduate students due to the wide range in forest types, ages, and soil conditions within the Forest and its proximity to the laboratories, greenhouses, and other scientific equipment and library facilities of the University. Research has already been started on special problems, particularly in the fields of silvics, forest soils, forest-tree physiology, forest entomology, forest pathology, silviculture, forest management, and wood technology. The Forest is used not only for research in forestry but also for research in forest biology by members of allied departments.

THE ARBORETUM

Of outstanding value in the teaching of both forestry and botany in the future is the provision for development of an arboretum. In their annual meeting on June 4, 1934, the Board of Trustees of Duke University, upon the recommendation of their Forestry Committee, voted to set aside permanently an area of over three hundred acres in the Forest to be used for arboretum purposes. The area lies adjacent to the main University campus immediately across the road from the Chapel.

Through the generosity of the late W. W. Flowers, of New York, a member of the Class of 1894 and a Trustee of the University, it has been

possible to develop preliminary plans and to make a number of plantings. This is naturally a long-time project, and many years will elapse before the Arboretum will be most useful and most attractive. The University Trustees' Committee on Forestry in their report to the Board refers to the Arboretum as follows:

"The Arboretum should serve as a station for the study of trees and woody plants as individuals and in small groups in their scientific relations, economic properties, and cultural characteristics, requirements, and possibilities. It should render an economic service by acting as a research laboratory where trees and shrubs can be studied from the viewpoint of a fuller utilization of their commercial possibilities. It should render a cultural service by serving as a center where foresters, landscape architects, nurserymen, gardeners, and the general public may increase their knowledge of indigenous trees and shrubs and where they may become acquainted with the foreign species that can be grown here. Within the University the Arboretum will supply living specimens and material for several branches of botany and forestry."

The development of the Arboretum will proceed along these lines as rapidly as available funds and planting stock will permit.

FELLOWSHIPS, SCHOLARSHIPS, AND RESEARCH ASSISTANTSHIPS IN FORESTRY

A number of fellowships, scholarships, and research assistantships are available to men who offer promise of becoming leaders in the forestry profession. These will be awarded for high character and marked scholastic ability as judged by education, experience, and personal references.

Holders of the awards will pay tuition and such additional fees as are regularly required.

The awards are of three classes with stipends and special conditions as follows:

(1) Fellowships of $400 and $600 each. Each recipient must have previously completed work equivalent to that required at Duke University for a Master's degree with major in forestry or in a discipline basic to forestry. He will devote his entire time to an approved program of study and research in any of the branches of forestry. He is expected to become a candidate for the degree of Doctor of Forestry or Doctor of Philosophy.

(2) Scholarships at $250 each. Each recipient will normally devote his entire time to an approved program of study leading to the degree of Master of Forestry or Master of Arts with a major in forestry.

(3) Research assistantships of $500 each. Each recipient will devote half-time to field, laboratory, or other work of the research program of the School of Forestry. He will be permitted to enroll for not more than 20 semester hours in a school year on a program of study, or study and research, leading to the degree of Master of Forestry, Master of Arts, Doctor of Forestry, or Doctor of Philosophy.

The following arrangements are common to all fellowships, scholarships, and research assistantships in forestry:

(1) Each applicant must have received a Bachelor's degree from an acceptable professional school of forestry or must be a graduate of a recognized college or university. If an applicant is not a graduate of a school of forestry, he must have had major work in botany or soil science and in the allied basic sciences. Each applicant must show reasonably high scholarship. Preference will be given to men who have already obtained technical or professional training in forestry.

(2) It is highly desirable that each applicant state as specifically as possible the field in which he wishes to study. The definite selection of a major field of work—one that is specific in purpose and involves training both in fundamentals and in technique—is very helpful to the Committee on Awards.

(3) Application blanks for fellowships, scholarships, and research assistantships may be obtained by writing to the Dean of the School of Forestry, Duke University, Durham, North Carolina. When the blank has been filled out by the applicant, it should be returned to the above address, and an *official transcript of record* showing college or university credits must accompany it or be forwarded promptly. The application and transcript must be filed not later than March 1 for consideration for the following academic year. In case vacancies occur, applications submitted on a later date may be considered.

REQUIREMENTS FOR ADMISSION TO THE SCHOOL OF FORESTRY

The following general requirements of the School of Forestry apply to candidates for the Master of Forestry degree:

Admission to the School of Forestry presupposes that the applicant is either a graduate of a scientific school, college, or university of high standing, but without professional training in forestry; or that he is a graduate of a professional school of forestry of recognized standing. He will present not less than four years of credit of collegiate grade, with at least as many quality points as hours.[1]

An applicant with no professional training in forestry will present a certified transcript of his academic record showing that he has had conferred upon him a degree in arts, science, or engineering; and that he has satisfactorily completed undergraduate work in minimum amount as follows:

One year of botany, including the morphology, physiology, and identification of plants.

One year each of English and of chemistry.

One course each in physics and in the principles of economics.

[1] Grades for each hour of college credit and also for credit earned in the School of Forestry are valued in quality points as follows: "A," 3 points; "B," 2 points; "C," 1 point; "D," no points; and "F," no credit and −1 point.

Mathematics, through college algebra and trigonometry.

It is urged that an applicant without professional training in forestry present additional credits in the above subjects and in one or more of the following subjects: soils, geology, mineralogy, petrology, climatology, surveying, languages (particularly German and French), sociology, political science, philosophy, psychology, and zoology.

An applicant who is a graduate of a professional school of forestry of recognized standing will present a certified transcript of scholastic record showing the award of a degree. Before registering for the first semester of residence, such applicants will be required to select the branch or branches of forestry in which they wish to concentrate the major part of their work and to prepare their proposed programs in conference with the appropriate faculty adviser.

Students must make application for admission in advance of the opening of the school year. Those students entering without acceptable courses in plane surveying, forest surveying, and forest mensuration must take the twelve weeks of work in these subjects in the Summer Session, and are required to submit their applications prior to May 1. Students entering with advanced standing in surveying and forest mensuration should make application before September 1. Application blanks will be sent upon request made to the Dean of the School of Forestry.

REQUIREMENTS FOR THE DEGREE OF MASTER OF FORESTRY

The degree of Master of Forestry (M.F.) is conferred upon students who have satisfactorily completed two years of study in technical forestry and one term of twelve weeks' work in plane surveying, forest surveying, and forest mensuration in the Summer Session. In addition to the summer school work a total of not less than sixty semester hours' credit is required for the M.F. degree, of which at least fifty-five shall be obtained in the School of Forestry. Each student must obtain at least as many quality points as semester hours' credit under the quality-point system described in footnote 1 of the preceding section.

A two weeks' field trip to typical timber-harvesting, manufacturing, and other forestry operations in the South is conducted by the School and is required as a part of the work in Forest Products Industries (Forestry 212). Other students in the School of Forestry may be permitted to take this trip as opportunities will be available for special work and observations in other branches of forestry in forest types not represented in the Duke Forest. One semester hour of credit may be earned for participation in the field trip by registering for it in Forestry 212A.

No student may take less than fifteen or more than eighteen hours in any one semester without special permission of the School of Forestry Faculty. The following work will ordinarily be required of all candidates for the M.F. degree:

SUMMER SESSION

	S.H.
Plane Surveying (C. E. S110)	3
Forest Surveying (F. S150)	5
Forest Mensuration (F. S151)	4

FIRST YEAR

First Semester	S.H.	*Second Semester*	S.H.
Harvesting Forest Products (F. 211)	3	Forest Products Industries (F. 212)	3
Forest Entomology (F. 231)	3	Forest Pathology (F. 224)	4
Sampling Methods (F. 251)	2	Dendrology (F. 254)	2
Dendrology (F. 253)	2	Silvics (F. 264)	3
Wood Anatomy & Properties (F. 259)	3	Electives	
Forest Soils (F. 261)	3		

SECOND YEAR

Silviculture (F. 265)	5	Forest Valuation (F. 282)	3
Forest Economics (F. 279)	3	Seminar (F. 292)	1
Forest Management (F. 281)	4	Thesis	
Thesis		Electives	
Electives			

These are the normal requirements for the Master of Forestry degree, but for the duration of the war a student, upon the recommendation of his adviser and approval by the Faculty, may substitute other available work for such required courses as are not offered while the student is in residence.

Each candidate is required to file in the office of the Dean of the School of Forestry on or before May 1 three copies of a thesis, typewritten and bound in accordance with regulations set forth by the Faculty. The thesis shall be based upon an original study made in the field, laboratory, or library.

Work of equivalent grade done in residence at recognized schools of forestry may, with the approval of the Faculty, be accepted as credit toward the M.F. degree. A minimum of one year's residence is required at Duke University. Students who have had satisfactory undergraduate training in forestry may, with the approval of the Faculty, elect to devote the major portion of their time to research under the supervision of one or more members of the Faculty and prepare a more comprehensive thesis than is required of students entering the School without previous work in forestry. Students in the School of Forestry may take in allied departments of the University as electives certain courses approved by the Faculty.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF FORESTRY

THE DEGREE

The degree of Doctor of Forestry is a research degree. It is based primarily upon evidence of high attainments in a special field of forestry

knowledge and upon the production of a thesis embodying the results of original research. It is not based merely upon the completion of a prescribed period of study or upon the obtaining of credit for a given number of courses.

A student who plans to enter upon a program of work leading to the degree of Doctor of Forestry should consult or enter into correspondence with the Dean of the School of Forestry. He will then be advised as to the possibility of obtaining the necessary instruction and supervision of research in the special field desired.

RESIDENCE

The normal period of resident graduate study, following satisfaction of the general requirements for admission to the Duke School of Forestry, is a minimum of two academic years after the student has obtained the graduate professional degree of Master of Forestry, or its equivalent. At least one of these two years of graduate study must be spent in actual residence at Duke University. With the approval of the Faculty of the School of Forestry work of equal grade done in residence at another college or university, or at a research station or institute not connected with a college or university, may be accepted toward a Doctor of Forestry degree. Only in connection with the preparation of the thesis will work be accepted that has been done elsewhere than in residence at a college, university, research station, or institute. A student whose undergraduate work is insufficient in amount or unsatisfactory in character may be required to spend additional time in preliminary courses essential as a basis for the graduate work he proposes to undertake.

Students whose research is concerned with the study of trees and forest stands in the Duke Forest during the growing season may find it necessary to be at the University during the summer.

Credit for one year of work done in regular terms of the Summer Session at Duke University may be given with the approval of the School of Forestry Faculty. Except in unusual cases, graduate work of fragmentary character taken over a long period of years, or work completed many years before the student becomes a candidate for the degree at Duke University, will not be accepted as satisfying the requirements of residence.

APPLICATION FOR CANDIDACY

No student will be admitted as a candidate for the degree of Doctor of Forestry until he has obtained the professional graduate degree of Master of Forestry or its equivalent, either at Duke University or at a professional school of forestry of recognized standing. A student desiring to become a candidate for the Doctor of Forestry degree is ordinarily required to file with the Dean of the School of Forestry, at the beginning of his graduate work toward this degree, a formal application indicating in which field and under what professor he proposes to carry on research. A committee of the Faculty will then be appointed to supervise the stu-

dent's work, with the professor in charge of his research as chairman. If and when the committee finds that the preliminary requirements of the major field have been satisfied, the chairman of the committee will report the fact in writing to the Dean of the School of Forestry. In the case of students who come to Duke University for only the last year of graduate work, and in special cases approved by the School of Forestry Faculty, the application for recognition as a candidate for the Doctor of Forestry degree may be filed later than provided above, but not later than October 15 of the academic year in which it is desired than the degree be conferred.

PROGRAM OF STUDY

The program of study of a candidate for the Doctor of Forestry degree will be arranged after consultation with the committee provided for in the preceding section and is subject to the approval of the Dean and Faculty of the School of Forestry. The student must select a major field and one or two minor related fields. Both major and minor may be selected in different branches of forestry or the minor may be taken in a related field in some other school or department of Duke University.

FOREIGN LANGUAGES

A reading knowledge of two foreign languages is required. One language shall be either French or German, and the other optional to fit the requirements of the student's problem. No student may come up for his preliminary examination before having satisfied the language requirements for the Doctor's degree. Foreign language examinations are conducted by the appropriate language department or, in special cases, by a qualified member of the Faculty of Duke University.

PRELIMINARY EXAMINATION

Toward the end of the first full year of graduate work for the Doctor of Forestry degree (or in special cases early in the second year), a preliminary examination of each candidate will ordinarily be held covering the general field of his studies. This examination will be conducted by the committee in charge of the student's work and will be written. A student who passes the examination will be recognized as a candidate for the Doctor of Forestry degree. A student's major and minor subjects will ordinarily be included in this preliminary examination.

If a student fails on his first examination, he may make a second attempt after six months upon recommendation of his committee and the approval of the Dean of the School of Forestry. Two failures on this examination make the student ineligible to continue work toward the Doctor of Forestry degree at Duke University.

THESIS

The thesis for the Doctor of Forestry degree must be a contribution to knowledge. The subject of the thesis must be filed with the Dean of

the School of Forestry on or before October 15 of the academic year in which the candidate desires to take the final examination for his degree. The subject must receive the written approval of the professor under whom the thesis is being written and of the Dean of the School of Forestry. The thesis must be completed to the satisfaction of the major professor. Four typewritten copies in approved form must be deposited with the Dean of the School of Forestry on or before April 15 if the student desires to be examined on the thesis in the same academic year. The title page must be approved by the Dean of the School of Forestry. Two of the copies, the original and a carbon copy, are placed in the School of Forestry library, one copy goes to the major adviser, and one is returned to the student.

The candidate's thesis must be published either in its original form or in a modified form approved by the Dean of the School of Forestry and the committee in charge of the candidate's work. In its published form the title page should include this statement: "A Thesis Submitted in Partial Fulfillment of the Requirements for the Degree of Doctor of Forestry in the School of Forestry of Duke University." Ten copies of the published thesis should be deposited in the office of the Dean of the School of Forestry within a reasonable time after publication. The degree will not be conferred until publication of the thesis, in approved form, within three years has been guaranteed in a way satisfactory to the Dean of the School of Forestry and the professor under whom the thesis was written.

FINAL EXAMINATION

The final examination will be on the thesis and on related subject matter and will be oral. Approximately one year must elapse between the dates of the preliminary examination and the final examination, except in special cases approved by the School of Forestry Faculty. Two failures on this examination make a student ineligible to continue work toward the Doctor of Forestry degree at Duke University. The second examination may be given only upon the recommendation of the professor in charge of the thesis and the approval of the Dean of the School of Forestry.

GRADING

Members of the Faculty are expected to report grades of graduate students to the School of Forestry Office not later than February 15 for the first semester and not later than June 15 for the second semester on the cards provided for that purpose. An average grade of "B" or better will be required for all work, beyond that for the degree of Master of Forestry, that is to be credited toward the Doctor of Forestry degree. A mark of "Incomplete" may be given when a student has failed, for an acceptable reason, to complete some portion of the required work in which his standing is generally satisfactory. Unless a report is made within one year that the work has been satisfactorily completed, all credit will be lost.

FORESTRY IN THE GRADUATE SCHOOL

Graduate work toward the Master of Arts and Doctor of Philosophy degrees in the more scientific branches of forestry is available to adequately prepared students at Duke University. This work is given through the Division of Forestry of the Graduate School of Arts and Sciences by certain members of the School of Forestry Faculty.

The following special conditions will influence the acceptance of students for graduate study in forestry: The student must have received a degree from a professional school of forestry of recognized standing or from an approved college or university. Graduates of professional schools of forestry must also have had adequate training in liberal arts and sciences, approximating 86 semester hours, before being admitted to candidacy for the Master of Arts or Doctor of Philosophy degrees. College graduates who have had specialized training in botany or soil science and in allied basic subjects, such as physics, chemistry, geology, and zoology, may pursue graduate study and research only in the specialized fields for which their previous work has qualified them.

The Forestry Staff will determine whether a student is qualified to pursue graduate study in any of the special fields of forestry in which work is available.

The Master of Arts and Doctor of Philosophy degrees are attained through scientific work rather than technical or professional training in forestry. Work for these degrees may be pursued only in forest-tree physiology, wood anatomy and properties, forest pathology, forest entomology, silvics, forest soils, forest mensuration, forest management, and forest economics, except that a major cannot be taken in forest management. A student upon registration chooses a field of study which may lie in two or more departments. The members of the Graduate School Faculty best qualified in that field are named as the student's advisory committee, regardless of the department of which they are members. This committee will advise the student in the planning and conduct of his work and will evaluate it when completed.

A reading knowledge of French and German must be acquired early in the course of graduate study in forestry because much of the forestry literature of the world is written in or has summaries in these languages. For the Ph.D. degree the language requirement must be met before the preliminary examination is taken and usually before the preparation of the thesis is begun.

The length of time required for a student to obtain the Master of Arts and Doctor of Philosophy degrees in forestry is determined by the character of his previous work and by the quality of his work in the Graduate School. Upon the recommendation of the Forestry Staff and with the approval of the Council on Graduate Instruction, work of equal

grade done in residence at another college or university, or at a research station or institute not connected with a college or university, may be accepted toward a Ph.D. degree, but at least the last year or the first two years of graduate study must be spent in actual residence at Duke University. Only in connection with the preparation of the thesis will work be accepted that has been done elsewhere than in residence at a college, university, or research station.

Students whose research is concerned with the study of trees and forest stands in the Duke Forest during the growing season may find it necessary to be at the University during the summer.

The field of study may include advanced work in allied subjects as well as advanced work in forestry. The student should have covered, however, most of the basic subjects prior to entering the Graduate School. The required advanced work will depend upon the student's previous training and the special field of study selected. Before beginning his work the student must obtain approval of his proposed program of study, including the plans for the research for his thesis. Courses of study must be correlated with each other and with the thesis research.

For further information on requirements for admission to the Graduate School of Arts and Sciences and on the general requirements for the Master of Arts and Doctor of Philosophy degrees reference should be made to the *Bulletin of the Graduate School of Arts and Sciences.*

COURSES AND SUBJECTS OF INSTRUCTION

With the exception of the summer session courses, odd-numbered courses are offered in the autumn semester, and even-numbered courses are offered in the spring semester.

IN THE SUMMER SESSION

C.E. S110. Plane Surveying.—A special section of C.E. S10 intended for students in Forestry and others of advanced standing. *Three weeks, nine hours a day.* **3 s.h.** PROFESSORS BIRD AND W. H. HALL AND MR. WILLIAMS
[Not offered summer 1944]

S150. Forest Surveying.—Application of plane surveying to forest problems; practice in making boundary and topographic surveys of forested tracts, using both intensive and extensive methods. Work includes use of transit, level, traverse board, topographic abney and slope tape, and aneroid barometer. Prerequisites: Civil Engineering, S110, plane surveying, or equivalent. *Five weeks, eight hours a day.* **5 s.h.** (w) ASSOCIATE PROFESSOR MAUGHAN
[Not offered summer 1944]

S151. Forest Mensuration.—Field studies in methods of measuring content and growth of trees and forest stands; practice in timber estimating, log scaling, use of mensurational instruments, and collection of basic data. **4 s.h.** (w) PROFESSOR SCHUMACHER

FOR SENIORS AND GRADUATES

211. Harvesting Forest Products.—Methods of harvesting and transporting to utilization plants all products obtained from forests, including saw logs, pulpwood, poles, ties, stave and veneer bolts, naval stores, distillation wood, and other commercial commodities, with emphasis on application of methods best adapted to managed forests in important forest regions of North America and consideration of costs. **3 s.h.** (w) PROFESSOR WACKERMAN

212. Forest Products Industries.—Preparation, manufacture, and use of tree products for all purposes including lumber, paper, naval stores, veneer, cooperage, boxes, distillation, and other specialized products with emphasis on methods of manufacturing and kinds of wood required for various commodities. Inspection of typical forest operations and forest products manufacturing plants in the South during two weeks of spring semester. **3 s.h.** (w) PROFESSOR WACKERMAN

213. Seasoning and Preservation of Wood.—Principles of seasoning lumber and other forest products by air drying and kiln drying, types of kilns and their operation; principles, methods, and materials used in treating wood to increase its durability. **3 s.h.** (w) PROFESSOR WACKERMAN

214. Marketing Forest Products.—Methods of selling and distributing timber, lumber, and other forest products in domestic and foreign trade; transportation methods; promotional activities of trade associations; competition between producing regions for markets and problems arising from the development of wood substitutes. Prerequisites: Forestry 211 and 212, or equivalents. **3 s.h.** (w) PROFESSOR WACKERMAN

224. Forest Pathology.—Special reference to diseases of forest trees. Prerequisites: Botany 1 and 2, and Forestry 253, or equivalents. **4 s.h.** (w) PROFESSOR WOLF

231. **Forest Entomology.**—Morphology, general classification, life histories, and control of insects injurious to forest trees, logs, and lumber. 3 s.h. (w) PROFESSOR BEAL

236. **Forest Game Management.**—Characteristics and life histories of forest animals; interrelationship between animals and forests; management of forest animals for revenue; control of noxious species. 3 s.h. (w) PROFESSOR BEAL

251. **Sampling Methods in Forestry.**—Statistical background for solution of sampling problems with special reference to sample inventory of a forest property. Prerequisite: Forestry S151. 2 s.h. (w) PROFESSOR SCHUMACHER

252. **Forest Mensuration.**—Empirical equations and curve fitting appropriate for construction of timber yield tables, tree volume and taper tables; significance tests and graphical solution of equations. Assignments require operation of calculating machines. Prerequisite: Forestry 251. 2 s.h. (w) PROFESSOR SCHUMACHER

253. **Dendrology.**—Nomenclature, classification, and identification of woody plants with special reference to species indigenous to southeastern United States and other important forest regions of temperate North America. Laboratory and field work. Prerequisite: one year of botany. 3 s.h. (w) PROFESSOR BEAL

256. **Wood Pulp and Pulp Products.**—Characteristics of pulp and paper fibres; processes employed in pulp manufacture; methods of refining and testing pulps; theory and practice of bleaching and hydration; the manufacture of papers and other cellulose derivatives. Prerequisites: Forestry 212 and 259, or equivalents. 3 s.h. (w) ASSOCIATE PROFESSOR HARRAR
[Probably not offered 1944-45]

257. **Design of Forestry Experiments and Analysis of Data.**—Role of experimental design in field and laboratory, and statistical analysis of data as aspects of scientific method in forest research. 5 s.h. (w) PROFESSOR SCHUMACHER

259. **Wood Anatomy and Properties.**—Anatomical, chemical, and nonmechanical physical properties of wood; macroscopic and microscopic identification of more important woods of the United States. Prerequisites: one year of botany and Chemistry 1 and 2, or equivalents. 3 s.h. (w)
[Probably not offered 1944-45] ASSOCIATE PROFESSOR HARRAR

260. **Timber Mechanics.**—Comprehensive study of mechanical properties of wood and factors affecting its strength; strength-moisture relationships; standard methods of timber testing and application of strength data in development of working stresses; use of graphic statics in analysis of stress in wooden structures. Prerequisites: Physics 1 and Forestry 259, or equivalents. 3 s.h. (w) ASSOCIATE PROFESSOR HARRAR
[Probably not offered 1944-45]

261. **Forest Soils.**—Origin, development, and classification of soils with special emphasis on those developed in climates supporting forests; morphological, physical, and chemical properties of soils in relation to growth of trees; field identification, field sampling, laboratory analysis, and interpretation of field and laboratory observations; interrelationships of soil and forest cover. Prerequisites: Chemistry 1 and 2, and Physics 1, or equivalents; physical geology and analytical chemistry are also desirable. 3 s.h. (w)
[Not offered 1944-45] ASSOCIATE PROFESSOR COILE

264. **Silvics.**—Ecological foundations of silviculture with special reference to forest site factors; influence of forests on their environment; growth and

development of trees and stands; origin, development, and classification of forest communities; methods of studying forest environments. Desirable prerequisites: plant physiology, plant ecology, and Forestry 253 and 261, or equivalents. 3 s.h. (w) Professor Korstian

265. **Theory and Practice of Silviculture.**—Principles governing natural regeneration and treatment of forest stands and their application to main commercial forest species, types, and regions of temperate North America; reproduction methods, intermediate cuttings, cultural operations, and silvicultural plans. Field practice includes marking timber for various kinds of cuttings, cultural treatments, preparation of plans for silvicultural treatment of forests, and study of intensively managed forests. Prerequisite: Forestry 264 or equivalent. 5 s.h. (w) Professor Korstian

266. **Forest Seeding and Planting.**—Place of artificial regeneration in practice of forestry; reforestation surveys and plans; collection, extraction, cleaning, testing, and storage of forest tree seeds; direct seeding; nursery practice; forest planting. 2 s.h. (w) Professor Korstian

273. **Forest Protection.**—Fundamental principles of forest protection; protection against atmospheric agencies, injurious plants, insects, domestic animals, and wild life; causes of forest fires and their prevention; presuppression activities; fire suppression; fire control costs and standards; fire plans. 2 s.h. (w) Associate Professor Thomson

[Not offered 1944-45]

276. **Forestry Policy.**—Critical study of forestry movement and development of a forestry policy, particularly in United States; brief résumé of forestry in important foreign countries; public land laws of United States; development of Federal and State forestry; forestry laws. 2 s.h. (w)

[Not offered 1944-45] Associate Professor Thomson

279. **Economics of Forestry.**—Principles of forest economics. Economic and social values of forests; forest resources and wood requirements; economics of wood production and consumption; prices of forest products; forestry and public finance; forestry and land use; forestry credit; forest fire insurance; forestry as a private business enterprise. Prerequisite: at least one course in the principles of economics. 3 s.h. (w)

Professor Wackerman

281. **Forest Management.**—Principles of organizing forest properties for systematic management including surveys, inventories, subdivision, and preparation of management plans for control of operations; principles of forest regulation, actual and normal forests, rotations, cutting cycles, and methods of regulating the cut for sustained yield. Prerequisites: Forestry S150, S151, and 251, or equivalents. 4 s.h. (w) Associate Professor Maughan

282. **Forest Valuation.**—Principles involved in appraising value of forests as business enterprises; valuation of land and timber, soil rent and forest rent theories, cost values, market values and capital values, profit, and rate earned; appraisal of stumpage values and damage appraisals; financial aspects of sustained yield management compared with destructive logging. Prerequisite: Forestry 281 or equivalent. 3 s.h. (w)

Associate Professor Maughan

292. **Seminar.**—Interrelation of various branches of forestry in their application to forestry problems; assigned topics with special reference to current forestry activities. 1 s.h. (w) The Staff

211A to 282A. **Special Studies in Forestry.**—Work on the same level as the foregoing Senior-Graduate courses to meet the needs of individual students. Credits and hours to be arranged. The Staff

FOR GRADUATES

301-302. **Advanced Studies in Forestry.**—Credits to be arranged. To meet individual needs of graduate students in the following branches of forestry:

a. **Silvics.**—Prerequisites: Forestry 253, 261, and 264, or equivalents.
PROFESSOR KORSTIAN

b. **Forest Soils.**—Prerequisite: Forestry 261 or equivalent.
[Not offered 1944-45] ASSOCIATE PROFESSOR COILE

c. **Silviculture.**—Prerequisite: Forestry 265 or equivalent.
PROFESSOR KORSTIAN

d. **Forest Management.**—Prerequisite: Forestry 281 or equivalent.
ASSOCIATE PROFESSOR MAUGHAN

e. **Forest Economics.**—Prerequisite: Forestry 279 or equivalent.
[Not offered 1944-45] ASSOCIATE PROFESSOR THOMSON

f. **Wood Anatomy and Properties.**—Prerequisites: Forestry 259 and 260, or equivalents. ASSOCIATE PROFESSOR HARRAR
[Probably not offered 1944-45]

g. **Forest Mensuration.**—Prerequisites: Forestry S151, 251, and 252, or equivalents. PROFESSOR SCHUMACHER

h. **Forest Entomology.**—Prerequisite: Forestry 231 or equivalent.
PROFESSOR BEAL

i. **Forest Utilization.**—Prerequisites: Forestry 211 and 212, or equivalents.
PROFESSOR WACKERMAN

j. **Dendrology.**—Prerequisite: Forestry 253 or equivalent.
[Probably not offered 1944-45] ASSOCIATE PROFESSOR HARRAR

311. **Advanced Forest Utilization.**—Analysis of the principles of determining the cost of and returns from harvesting timber for various products and other uses of forests; study of factors governing the relation of tree size to net stumpage values; and the application of these principles and methods in the solution of actual case problems. Prerequisite: Forestry 211 or equivalent. 2 s.h. (w) PROFESSOR WACKERMAN

323-324. **Advanced Forest Pathology.**—Advanced study and research on life histories and control of diseases of forest trees to meet individual needs of graduate students. Prerequisites: plant physiology and forest pathology. Credits to be arranged. PROFESSOR WOLF

351-352. **Advanced Physiology of Forest Trees.**—Advanced study and research on problems in physiology of forest trees to meet individual needs of graduate students. Prerequisites: plant physiology and plant ecology or silvics. Credits to be arranged. ASSOCIATE PROFESSOR KRAMER

354. **Forest Soil Fertility.**—Experimental approach to the problems of fertility in forest soil. Influence of stand composition on nitrogen transformation. Methods of studying the exchange complex and the significance of base exchange in forest soil fertility. Prerequisites: Forestry 251 and 261, and plant physiology, or equivalents; bacteriology and analytical and organic chemistry are desirable. 3 s.h. (w) ASSOCIATE PROFESSOR COILE
[Not offered 1944-45]

356. Economic Forces in Forestry.—Analysis of classical and contemporary theories of forest valuation. Principles underlying the measurement of forces determining forestry values. Prerequisites: Forestry 279 and 282, or equivalents; courses in economic theory are desirable. **2 s.h.** (w)
[Not offered 1944-45] Associate Professor Thomson

357-358. Research in Forestry.—Credits to be arranged. Students who have had adequate training may do research under direction of members of the Faculty in the branches of forestry indicated under Courses 301-302 with the same prerequisites as thereunder noted. Each branch to bear the same letter designation as under Courses 301-302. The Staff

FEES AND EXPENSES

The following tables show the general fees and charges collected from all students and the special fees collected from those taking laboratory courses. All fees for each semester are due and payable, unless otherwise specified, at the time of registration at the beginning of that semester, and no student is admitted to classes until arrangements have been made with the Treasurer of the University for the settlement of fees.

GENERAL FEES

Matriculation, per semester	$ 25.00
Tuition, per semester	100.00
Room-rent—see the detailed statement that follows.	
Athletic Fee, admitting students to all athletic contests held on the University grounds, per semester	5.00
Damage Fee, payable annually at the time of first registration	1.00
Medical Fee, per semester	5.00
Library Fee, per semester	5.00
Commencement Fee, payable once by graduate students in the last semester before a degree is conferred	3.00
Diploma Fee, payable by candidates for degrees, at the beginning of the second semester, refunded if the diploma is not awarded	5.00

For further information concerning room-rent, see below.

SPECIAL FEES

Graduate students in the sciences are required to pay the special laboratory fees for courses as fixed by the various departments. An administrative fee is charged in connection with special research in the summer under direction of a member of the Faculty. Special laboratory and materials fees in forestry are as follows:

Forestry 224, 253, 259, 260, 264, 301a, 302a, 357a, and 358a	$2.50
Forestry 261, 351-352, 354, 301b, 301f, 302b, 302f, 357b, 357f, 358b, and 358f	$2.50 to $5.00

TRANSCRIPTS

A student desiring to transfer from Duke University to another institution is entitled to one transcript of his record. A charge of one dollar is made for each additional copy.

PAYMENTS TO FELLOWS AND SCHOLARS

Payments by the University of stipends to fellows, research assistants, and scholars are made in four installments, on November 25, January 25, March 25, and May 25.* Fellows and scholars are required to pay the regular tuition fee and such additional fees as are ordinarily required of graduate students.

* This date of payment will be adjusted to accord with the advancement in the date of Commencement.

ROOMS AND CONDITIONS OF RENTING THEM

Room-Rent for Men of Duke University

West Campus, per semester .....$50.00, $62.50, and $75.00
East Campus, per semester .....$30.00 and $50.00

All graduate courses are given on the West Campus.

Rooms are reserved only for students who have been officially accepted by the University. They are rented for no shorter period than one semester. The occupancy of a room for a period of less than one semester will cost the student $1.00 each day unless the occupant makes the necessary arrangements with the Director of the Business Division before occupying the room. A room deposit of $25.00 is required of each applicant for admission. The fee is deducted from the room charges at the time of registration for the full semester. The reservation fee will be refunded to any applicant not accepted by the University provided the official receipt for the fee, given to all paying it, is presented either in person or by letter to the Treasurer's Office, but students who make application and are accepted will not be entitled to have the reservation fee refunded unless the request is made on or before August 1.

A resident student who wishes to retain his room for the succeeding year must first pay a reservation fee of $25.00 to the Treasurer's Office and then notify the office of the Director of the Business Division on or before May 15. All rooms which have not been signed for on or before May 15 will be considered vacant for the succeeding year. When a room is once engaged by a student, no change will be permitted except with the consent of the Director of the Business Division. Leaving one room and occupying another without permission is strictly against the rule and will render the offender liable to a charge for both rooms for the entire semester. No occupant is permitted to rent or sublet a room to another occupant. The use of a room for merchandising of any kind is strictly forbidden.

The University does not assume the responsibility of selecting and assigning roommates, though it will gladly render any assistance possible in the matter.

DORMITORIES FOR MEN

On the West Campus there are four groups of dormitories, Craven, Crowell, Kilgo, and Few. Each group forms a quadrangle enclosing a court. Few Quadrangle is reserved especially for the use of graduate and professional school students.

BOARDING ACCOMMODATIONS

West Campus.—Beginning with the academic year 1930-31 the University opened its dining hall in the Union on the West Campus with accommodations sufficient to provide in a superior way for all resident men students. It is the policy of the University to furnish board to its students at actual cost. Charges for board will not exceed $25.00 per month.

The Union is the logical center of student activities for men, and it will be found desirable for male students to board in its supervised halls. In the Union are located the University Post Office, the University Store, the University Barbershop, and all publication staff offices.

In addition to the Union dining halls a coffee shop is operated for the convenience of students and visitors.

ESTIMATED EXPENSES FOR AN ACADEMIC YEAR

The necessary expenses of a graduate student are moderate; the University dormitories provide thoroughly comfortable and wholesome living conditions at a minimum cost, while all charges made by the University have been kept low. Incidental expenses naturally depend upon the tastes and habits of the individual. The following table gives the necessary college expenses for one year:

	Low	*Moderate*	*Liberal*
Tuition	$200.00	$200.00	$200.00
Matriculation	50.00	50.00	50.00
Room-rent	100.00	125.00	150.00
Board	225.00	225.00	225.00
Laundry	20.00	25.00	35.00
Books	22.50	30.00	45.00
Library Fee	10.00	10.00	10.00
Athletic Fee	10.00	10.00	10.00
Damage Fee	1.00	1.00	1.00
Medical Fee	10.00	10.00	10.00
Total	$648.50	$686.00	$731.00

ENROLLMENT, 1943-44

STUDENTS IN THE SCHOOL OF FORESTRY

*Berry, Frederick Hamer.....Staunton, Va. GG-207
B.S., Duke University, 1943

*Matte, Lorenzo.....Rimouski, Que., Canada
1603 Duke University Road
B.A., Université Laval, 1932
Bachelor of Surveying, Université Laval, 1939
Forestry Engineer, Université Laval, 1939

*Olson, Earl Franklin.....Norris, Tenn. Duke University
B.S., Iowa State College, 1933

Total 3

ACADEMIC-FORESTRY SENIORS

Coman, James Hilary, Jr.....Durham, N. C. HH-208

Johnstone, Robert Dale.....Munhall, Pa. FF-101

Total 2

INSTITUTIONS REPRESENTED

Duke University ..... 3 Université Laval 3

Iowa State College ..... 1 *Total Institutions* 3

GEOGRAPHICAL DISTRIBUTION

United States

North Carolina ..... 1 Tennessee 1

Pennsylvania ..... 1 Virginia 1

Total States 4

Foreign Countries

Canada 1

GENERAL SUMMARY

Students in the School of Forestry 3
Academic-Forestry Seniors 2

Total Enrollment 5

Total number of institutions represented 3
Total number of states represented 4
Total number of foreign countries represented 1

* Candidate for the degree of Master of Forestry in 1944.

VOLUME 16 February, 1944 NUMBER 2

BULLETIN OF DUKE UNIVERSITY

College of Engineering

1943-1944

ANNOUNCEMENTS FOR 1944-1945

PUBLISHED BY THE UNIVERSITY
DURHAM, NORTH CAROLINA

ANNUAL BULLETINS

For General Bulletin of Duke University, apply to *The Secretary,* Duke University, Durham, N. C.

For Bulletin of Undergraduate Instruction, apply to *The Secretary,* Duke University, Durham, N. C.

For Bulletin of The College of Engineering, apply to *The Secretary,* Duke University, Durham, N. C.

For Bulletin of The Graduate School of Arts and Sciences, apply to *The Dean of the Graduate School,* Duke University, Durham, N. C.

For Bulletin of The School of Law, apply to *The Dean of the School of Law,* Duke University, Durham, N. C.

For Bulletin of The School of Medicine, apply to *The Dean of the School of Medicine,* Duke University, Durham, N. C.

For Bulletin of The School of Nursing, apply to *The Dean of the School of Nursing,* Duke University, Durham, N. C.

For Bulletin of The Divinity School, apply to *The Dean of the Divinity School,* Duke University, Durham, N. C.

For Bulletin of The School of Forestry, apply to *The Dean of the School of Forestry,* Duke University, Durham, N. C.

For Bulletin of The Summer Session, apply to *The Director of the Summer Session,* Duke University, Durham, N. C.

Published by Duke University monthly except in July, August, September, and December. Entered as second-class matter March 25, 1929, at the Post Office of Durham, North Carolina, under the Act of August 24, 1912.

BULLETIN

OF

DUKE UNIVERSITY

COLLEGE OF ENGINEERING

1943-1944

ANNOUNCEMENTS FOR 1944-1945

DURHAM, NORTH CAROLINA
1944

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UNIVERSITY CALENDAR

The calendar will be available at a later date
and will be supplied upon request.

1944

JANUARY

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ADMINISTRATIVE OFFICERS

Robert Lee Flowers, A.M., LL.D. *President of the University*	West Campus
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W. A. Tyree, *Secretary*	W. J. Seeley
H. C. Bird	R. S. Wilbur

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Assistant Professor of Chemistry Dixon Road

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Assistant Professor of Chemistry 115 Pinecrest Road

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JOSEPH J. SPENGLER, A.B., M.A., Ph.D.
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ROBERT H. VAN VOORHIS, A.B., A.M.
Instructor in Economics East Campus

ROBERT NORTH WILSON, A.B., M.S.
Professor of Chemistry 822 Third Street
Assisted by members of General Faculty listed in *General Bulletin*.

COUNCIL ON ENGINEERING INSTRUCTION

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Vice-President W. H. WANNAMAKER
Dean W. H. HALL
H. C. BIRD, Civil Engineering
W. J. SEELEY, Electrical Engineering
R. S. WILBUR, Mechanical Engineering
L. G. BONNER, Physics
M. E. HOBBS, Chemistry
FRANK DEVYVER, Economics
C. R. SANDERS, English
J. J. GERGEN, Mathematics
W. A. TYREE, Secretary

* Absent on leave, government service.
** Absent on leave, U. S. Navy.

ENGINEERING COURSES OFFERED

GENERAL STATEMENT

Duke University, through the College of Engineering, offers standard four-year courses in civil, electrical, and mechanical engineering, with an aeronautical option for mechanical engineers. These departments are housed respectively in Bivins, Asbury, Branson, and the Aeronautics Laboratory buildings. Allied subjects are taught on the East Campus in Carr, West Duke, and the Science buildings. The James H. Southgate Memorial Building, set aside for the housing of engineering students, contains social rooms, gymnasium, dining hall, and kitchen, as well as dormitory facilities. Meals are provided in this building at the same rate which prevails in the other University dining halls.

Curricula: All of the curricula of the College of Engineering are fully accredited by the Engineers' Council for Professional Development, recognized accrediting agency for engineering education. Fundamental training is given in English, mathematics, and the sciences, as well as in the technical subjects leading to professional work in civil, electrical, and mechanical engineering. Election of courses in the Department of Economics and Business Administration is encouraged in the belief that the combining of such courses with the rigorous engineering program affords excellent preparation for the types of commercial or industrial activities in which engineering training is most valuable.

Faculty: The members of the Instructional Staff have been chosen particularly for their ability to teach. Instruction is given in small sections, thereby insuring personal attention. The laboratory is used to supplement the classrooms, and at present the same instructor carries his class through both the classroom and laboratory work. This is made possible only where classes are limited in size.

Student Activities: Four national engineering societies, the American Institute of Electrical Engineers, the American Society of Civil Engineers, the American Society of Mechanical Engineers, and the Institute of the Aeronautical Sciences, are represented by student chapters operating under national charters. An honorary engineering fraternity, Delta Epsilon Sigma, was organized several years ago for the purpose of stimulating good scholarship among the engineering students. All five of these organizations afford unusual opportunities for the members to present papers and to conduct discussions in certain phases of engineering not covered in the classroom. Engineering students are in every sense a part of the student body of Duke University, enjoying the general advantages of the University and being subject to the general rules and regulations.

History: The teaching of engineering is not new at Duke University. From 1887 to 1893 formal courses in civil and mining engineering lead-

ing to the Bachelor of Science degree were offered by Trinity College. After their discontinuance in 1893, the teaching of engineering subjects was begun again in 1903 and has continued uninterruptedly since that time. At present three departments offer courses in civil, electrical, and mechanical engineering leading to the degree of Bachelor of Science in these branches of engineering. These three departments constitute the College of Engineering.

CIVIL ENGINEERING

The civil engineer's field of work may be divided into four major divisions: sanitary—dealing with water works, sewerage systems, and garbage disposal; hydraulic—interested in flood control, river improvement, irrigation, drainage, and water power; transportation—concerned with railroads, airports, highways, waterways, park systems, traffic control, and city planning; and structural—dealing with bridges, buildings, foundations, dams, tunnels, tanks, bins, and various industrial structures. His function is chiefly one of design and construction, although often it includes maintenance. In order to train a student in these various lines of effort, the following equipment is provided.

HIGHWAY MATERIALS: Complete equipment is available for the preparation and routine testing of aggregates, cement, and bituminous materials. There is also a Hubbard stability machine for additional tests.

SANITARY ENGINEERING: In the sanitary laboratory there is a complete equipment for performing the physical, chemical, bacteriological, and microscopic tests as outlined by the American Public Health Association. Different types of water current meters are available for work in steam gaging.

SOIL TESTING: This laboratory is fully equipped to carry out the experiments generally used in testing soil for highway purposes.

CEMENT TESTING: There is available complete equipment for the testing of cement and aggregates, such as an automatic shot-testing machine, flow table, Ro-Tap sieve shaker, a two-hundred-thousand-pound hydraulic compression machine, and other necessary supplies.

SURVEYING: For use in the courses in surveying there are thirteen transits, twenty-one levels, a precise theodolite and a precise level, three plane table outfits, solar attachments, sextants, compasses, barometers, and other light equipment.

STRESS ANALYSIS: Advanced work in stresses is carried on by means of a large-sized Begg's deformeter and photoelastic equipment.

GENERAL ENGINEERING MATERIALS: This laboratory, housed in the Civil Engineering Building, contains the equipment necessary to give undergraduate and graduate instruction in the determination of the physical properties of materials. In the laboratory are two universal testing machines, torsion, fatigue, and impact machines, a proving ring, several hardness testers, and an exceptionally complete set of accessories and small instruments for the determination of the stress-deformation characteristics of steel, wood, and concrete.

ELECTRICAL ENGINEERING

The field of electrical engineering covers the generation, transmission, distribution, and utilization of electrical energy: steam and hydro-electric generating stations; transmission systems; distribution circuits; communcation by wire, radio, and television; transportation on land, sea, and air; illumination and manufacturing applications.

THE ELECTRICAL MACHINERY LABORATORY receives its electric power from the Duke Power Company over a 2300-volt, 60-cycle, three-phase line. The equipment includes A. C. to D. C. motor-generator set for supplying the laboratory with direct current, four direct-connected D. C. to D. C. motor-generator sets; two D. C. to A. C. belted sets; a G. E. sine wave motor-generator set; a Westinghouse phase displacement dynamometer; a General Electric type A. C.-D. C. synchronous converter, for one-, two-, three-, or six-phase operation; numerous single-phase constant potential transformers; a three-phase transformer; a constant current transformer equipped with a typical load of series street lamps; a high-current testing transformer; three-phase induction regulators; numerous loading devices, both electrical and mechanical; a number of representative D. C. and A. C. motors and generators; complete equipment for testing a large variety of fractional horsepower motors. In addition, the equipment includes a complete line of indicating, recording, and graphic measuring instruments for both general testing purposes and precision measurements, and three oscillographs with accessories for viewing and photographing wave forms.

THE COMMUNICATIONS LABORATORY is exceptionally well equipped and contains complete apparatus for carrying out all kinds of communication experiments at both audio and radio frequencies. The audio-frequency equipment includes a 200-mile open-wire artificial telephone line, a vacuum tube amplifier-milliammeter-voltmeter, 6-A transmission measuring set, vacuum tube oscillators, calibrated for frequencies ranging from 25 to 100,000 cycles per second, a 1,000-cycle motor-generator, a direct reading frequency meter reading from 20 to 20,000 cycles per second; impedance bridges for both audio and intermediate frequencies; standards of resistance, inductance, and capacitance; filters of various kinds; a high quality amplifier, power amplifiers, loud-speakers, noise meter, and other instruments for general test purposes. A complete Automatic Electric Company telephone exchange is included in this laboratory. The radio-frequency equipment consists of short wave and broadcast receivers, precision wave meter, automatic field strength recorder, field intensity meter, standard signal generator, cathode-ray oscillographs, an RCA dynamic demonstrator, an RCA Rider Chanalyst, a square-wave generator, thermo-couples for current and voltage determinations, condensers, inductors, and meters. Equipment for performing experiments in the ultra-high frequency region also is provided.

THE ELECTRONICS LABORATORY, adjoining the Communications Laboratory, is completely equipped for studies of vacuum tubes and vacuum

tube circuits: power supply units, special high resistance meters, oscillators, vacuum tube voltmeters, thermo-couples, etc.

The Standardizing Laboratory is equipped with standard instruments for the purpose of checking and calibrating meters used in any of the other laboratories.

The High Voltage Laboratory, housed in a separate building adjacent to the other electrical laboratories, provides equipment for high-voltage testing and experimentation. A 10-KVA G. E. transformer provides for 60-cycle testing up to 100,000 volts. A surge ("man-made lightning") generator composed of twenty-five 20-KV G. E. capacitors provides 500,000-volt surges for determining the effect of lightning strokes on electrical apparatus. Complete auxiliary equipment is available for control and measurement of the observed phenomena.

The Illumination Laboratory is equipped with a variety of instruments for the measurement of illumination intensity, and provides facilities for special tests.

The Projects Laboratory is set aside for the use of students who are working on special projects requiring set-ups which cannot be disturbed by regular laboratory experiments. This laboratory is made available to Seniors who elect projects course 173-174.

The Electrical Circuits Laboratory is equipped with all necessary apparatus and instruments for carrying out experiments on direct current and alternating current circuits, such as studies of various types of meters, resistance and conductivity measurements, storage batteries, magnetic measurements, series and parallel circuits, power factor, etc.

The Amateur Radio Station, W4AHY, is equipped with a 75-watt crystal-controlled C. W. transmitter, a Collins 30FXB 100-watt phone transmitter, Hammarlund Pro receiver, National SW5 receiver, a pair of RCA tranceivers, and necessary testing and measuring equipment. The station is controlled and operated by the Engineers' Radio Association.

MECHANICAL ENGINEERING

Mechanical engineering as a profession is concerned with power and machines to generate power and to apply it to useful ends. A field so broad includes all lines of industry, but among the special fields in which mechanical engineers are engaged are combustion or power production engineering, machine and machine-tool design, railway motive power, automotive engineering, aviation engineering, refrigeration, air conditioning, and industrial management.

In order to lay a foundation for a successful career in mechanical engineering, it is necessary to provide a tie between theory and practice, to become familiar with engineering apparatus and instruments as well as their testing and calibration. Laboratory work is therefore necessary. The equipment in the Mechanical, Materials Processing, and Aeronautics laboratories has been carefully arranged in a number of groups, to serve the needs of the undergraduate for efficiently carrying out the program indicated above.

BRANSON MECHANICAL LABORATORY

Boiler Room. The boiler room contains a one-hundred horsepower oil-fired boiler with complete accessories and controls by which it may be operated by students, providing steam for all steam experiments and tests.

Steam Equipment. Conveniently located adjacent to the boiler room are a Troy horizontal self-oiling automatic steam engine, a Troy vertical throttling governor steam engine, and a Sturtevant steam turbine, together with brakes and accessories for their complete testing, either as units or as components in a small-scale power plant. Equipment for studying flow and quality of steam, and injector, and an arrangement for the study and testing of steam traps are included in this group.

Air Compression. An electrically driven 12 x 10 Ingersoll-Rand air compressor has been arranged with accessories and instruments for testing it, and, in addition, provides means for studying the flow of high-pressure air through pipes, valves, and fittings.

Internal Combustion Equipment. Automobile and Diesel engines connected to electric and hydraulic dynamometers and generators are part of this laboratory. Appropriate instruments are provided for the determination of capacity, mechanical and thermal efficiency and heat balance in each case.

Hydraulic Apparatus. A Cameron centrifugal pump driven by a variable speed motor provides for a very complete determination of capacity and efficiency tests, as well as being a controllable source of water for tests covering hydraulics as applied to mechanical engineering.

Instrument Room. An instrument room is provided for the storing and maintenance of instruments used in the laboratories. These instruments include: steam engine and internal combustion engine indicators and reducing motions, tachometers and speed counters, planimeters, pressure gauges and calibrating equipment, thermometers of all types, scales and small tools.

Lubricants and Fuels Testing Laboratory. There are complete facilities for proximate analyses and calorific determination of solid, liquid, and gaseous fuels, as well as for all the standard tests of lubricants.

Additional equipment provides adequately for boiler feedwater analysis, study of the flow of water through pipes and fittings, blower testing, and flow of air through ducts, and a number of tests in the field of air conditioning.

MATERIALS PROCESSING LABORATORY

Machine Tools. Two engine lathes, a universal milling machine, a shaper with slotting attachment, a drill press, a power grinder, and a power hack saw compose the metal-working tools. Such auxiliary attachments as are needed for general purpose machines are provided for the above machine tools. Woodworking machines including a lathe, band saw, circular saw and planer, and a disc sander are available for pattern and wind tunnel model construction.

Welding Equipment. A 200-ampere electric arc welding machine and complete oxy-acetylene welding and cutting equipment are provided for demonstration of these methods of construction and fabrication.

Casting Equipment. A gas-fired melting furnace and sufficient molding equipment are available for the production of small castings on a demonstration basis.

Metallographic and Heat Treating Equpiment. Polishing equipment and a microscope are available for the preparation and examination of metal specimens. Heat treatments may be carried out with the use of a gas-fired heat-treating furnace.

AERONAUTICS LABORATORY

Wind Tunnel. The wind tunnel is of the closed throat type with a 24" circular working section. The air speed through the working section is 140 m.p.h. A standard suspension system is employed for the models, permitting computation of lift, drag, and pitching moment.

Engine Test Cell. The engine test cell has been developed around a four-cylinder opposed type air-cooled engine. The engine is fitted with a club propeller and cradle mounted for torque measurements. Complete tests can be made for heat balance, engine cooling, and attitude effect.

Engine Bay. To meet CPT requirements for the secondary flight training program, a group of representative engines has been collected. These include both liquid- and air-cooled types. Assembly and disassembly of these engines by the students in the CPT courses permits the engineering students to make close examination of the important engineering features of the engines.

Structural and General Exhibits. For joint use of the engineering students and the CPT students a collection of typical aircraft structures and instruments has been made. This collection includes airplane fuselages, wing panels, tail assemblies, propellers, and flight and engine instruments.

GENERAL FACILITIES OF THE COLLEGE OF ENGINEERING

The Engineering Library, housed in Asbury Building, provides a total of approximately 8,000 volumes, in the field of engineering and its allied subjects. A collection of approximately 1,600 engineering periodicals is constantly expanding through the receipt of current issues. Engineering students also have full access to the General University Library, the Woman's College Library, and the various specialized departmental libraries.

The Drafting Rooms. Three separate well-lighted drafting rooms facilitate work in the various courses in which graphic methods are taught and employed. Additional facilities include a standard machine for producing both blue-prints and white-prints.

The Photographic Dark Room provides complete facilities for processing a wide variety of photographic materials used to supplement course instruction.

ADMISSION TO COLLEGE

GENERAL REGULATIONS

Admission to the College of Engineering of Duke University is on a selective basis, dependent upon the ability, attainments, and character of the applicant. No student is admitted until the Council on Admissions has received for him a scholastic record from school or college, a certificate of vaccination and of good health, and satisfactory evidence of good character and ability. Prospective students and relatives are invited to visit the University and the College of Engineering in particular. This would be advantageous to the applicant since it would enable him to acquaint himself wtih the facilities of the University, and to discuss possible courses of study.

Certain days are announced in the University Calendar each year for the registration, classification, and sectioning of students. Those students who are admitted later than the dates announced must pay to the Treasurer $5.00 additional for the privilege of matriculating.

All correspondence relating to admission of men should be addressed to the Secretary of Duke University, Duke Station, Durham, N. C.

ADMISSION TO THE COLLEGE OF ENGINEERING

An applicant for admission to the Freshman Class in engineering must have completed at least fifteen units of preparatory work, partly in required and partly in elective subjects. A unit represents a year of work in a subject in an accredited secondary school, provided the work done in that subject is approximately one fourth of the annual amount of work regularly required in the school.

The subjects in which this credit may be offered and the maximum amount of credit acceptable in each subject are given in the following table:

	UNITS		UNITS
English	4	Botany	1
Latin	4	Zoology	1
Greek	3	General Biology	1
German	3	Physical Geography	1
French	3	General Science	1
Spanish	3	Agriculture	2
Mathematics	4	Mechanical Drawing	2
History and Civics	4	Woodwork, Forging, and Machine Work	2
Physics	1	Household Economics	2
Chemistry	1	Commercial Subjects	3

For a detailed explanation of the units in the table above, see the definitions as set forth by the Southern Association of Colleges and Secondary Schools and other regional associations.

ADMISSION BY CERTIFICATE

Applicants able to submit certificates of proficiency from accredited schools in subjects accepted for admission to the Freshman Class will be admitted without examination. These certificates must be properly made out on the regular blanks furnished by the University, signed by the principal of the school from which the applicant comes, and presented before or at the opening of the academic year. The applicant must have completed the course of the school from which he comes.

At least nine and one half of the fifteen units required for admission must come from the following:

Required Units

English	3 units
A Foreign Language	2 units
*Science	1 unit
History	1 unit
**Algebra	1½ or 2 units
Plane Geometry	1 unit

Elective Units

In addition to the above required units, sufficient elective units must be offered to make a total of fifteen. It is recommended that these electives be chosen from the following list:

Algebra	½ unit
Solid Geometry	½ unit
Trigonometry	½ unit
†German or French or Latin or Spanish or Greek	1 to 4 units
History or Civics (not the required unit)	1 to 3 units
Physics or Chemistry or Biology (not the required unit)	1 to 3 units

ADMISSION BY EXAMINATION

Students who present fifteen units for admission from schools not accredited by the University, and students who present the proper units but whose grades are not acceptable, are required to validate their units by entrance examinations in English and in mathematics and such other tests as the University may prescribe, including the test required by the North Carolina College Conference.

Students who have not the required units in English or in mathematics but who are otherwise acceptable must, before admission, clear this deficiency by entrance examinations.

* Wherever possible, physics or chemistry should be offered for this requirement.
** Examination required to validate offering.
† One elective unit in any of the above languages will be accepted for admission provided the language requirement has been satisfied without it. As many as four units will be accepted in any one of these languages.

ADMISSION TO ADVANCED STANDING

Students may be admitted to advanced standing from other approved institutions under the following conditions: all applicants must have fulfilled the equivalent of the requirements for admission to the Freshman Class, must present official certificates of all work done in other institutions, and have honorable dismissal from the institutions they previously attended.

Applicants for advanced standing should present, so far as possible, subjects corresponding to those required at Duke University. Students admitted to advanced standing may not during their first semester elect more than the minimum number of hours required of the class which they enter except by permission of the Dean. Further, in addition to other requirements, a minimum of one full year in residence at Duke University with the satisfactory completion of at least thirty semester hours of work approved for Seniors, with an average grade of "C," is required of all candidates for the Bachelor's degree.

Students who have transferred from other colleges must, in order to make their provisional classification final, pass during their first year of residence not less than the equivalent of four year courses with an average grade of "C" or higher.

The date for the registration and classification of students with advanced standing from other institutions is announced in the University Calendar. Students who are admitted later than this date are required to pay to the Treasurer $5.00 additional for the privilege of matriculating.

FRESHMAN WEEK

The week immediately preceding the opening of College is set aside for the induction of Freshmen. During this period health examinations, psychological tests, and placement tests are given in English and mathematics. Sectioning in these two subjects are based on the grade made on the placement tests. The Freshmen are divided into groups for instruction in the use of the Library, in the regulations of the student body, and in all matters pertaining to the adjustment of the individual to a new environment. Attendance upon these exercises is required of all Freshmen.

SPECIAL STUDENTS

Students of mature age not fully prepared to enter the Freshman Class may be admitted as special students and allowed to enroll for such work as they are prepared to carry. Further, they are required to take fifteen hours of classwork a week.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL, ELECTRICAL, OR MECHANICAL ENGINEERING

GENERAL STATEMENT

The studies for the degree of Bachelor of Science in Civil, Electrical, or Mechanical Engineering are designed for students who are preparing for civil, electrical, and mechanical or aeronautical engineering as a profession, and lead to the following degrees: B.S. in C.E., B.S. in E.E., and B.S. in M.E. All curricula of the College of Engineering are fully accredited by the Engineers' Council for Professional Development, recognized accrediting agency in the field of engineering education.

Each of these degrees requires one hundred and thirty-eight semester hours of work of which one hundred and twenty must be completed with an average grade of "C." If a foreign language is elected, it must be taken two years unless a student has sufficient entrance credits to enable him to pursue a more advanced course.

Prospective students should note that immediately after the final examination in May or June a three weeks' course in surveying is given under the direction of the Summer Session. This course is required of all civil engineering students at the end of their Freshman year and is required of all other engineering students before graduation.

Courses described in the Navy V-12 Bulletin No. 101 may be offered in place of certain required courses outlined in this bulletin for the civil, electrical, and mechanical curricula.

GROUPS OF STUDIES FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL, ELECTRICAL, OR MECHANICAL ENGINEERING

GROUP I

CIVIL ENGINEERING

Freshman Year

FIRST SEMESTER	S.H.	SECOND SEMESTER	S.H.
Mathematics 9	5	Mathematics 10	5
Chemistry 1	4	Chemistry 2	4
English 1	3	English 2	3
Physics 17	3	Physics 18	3
Drawing G. E. 1	2	Drawing G. E. 2	2
Physical Education		Physical Education	
	17		17

Three weeks of Surveying S60 in summer. Credit, 3 semester hours.

Sophomore Year

Mathematics 59	4	Mathematics 60	4
Physics 57	3	Physics 58	3
Economics 51	3	Economics 52	3
Statics G. E. 57	3	Kinetics G. E. 58	3
Surveying 61	2	Steam Engineering M. E. 55	2
Route Surveying 63	2	Route Surveying 64	2
Physical Education		Physical Education	
	17		17

Junior Year

Strength of Materials 107	3	Hydraulics 128	3
Structures 131	4	Structures 132	4
Highways 115	3	Materials 118	3
Electrical Engineering 153	3	Electrical Engineering 154	3
Elective	3	Elective	3
	16		16

Senior Year

Sanitary Engg. 123	4	Sanitary Engg. 124	3
Concrete 133	3	Concrete 134	3
Railroads 119	3	Astronomy-Navigation 112	3
Heat Power M. E. 103	3	Heat Power M. E. 104	3
M. E. Lab. 115	1	M. E. Lab. 116	1
Elective	3	C. E. Project 143	3
	17	Elective	2
			18

GROUP II

Electrical Engineering

Freshman Year

FIRST SEMESTER	S.H.	SECOND SEMESTER	S.H.
Mathematics 9	5	Mathematics 10	5
Chemistry 1	4	Chemistry 2	4
English 1	3	English 2	3
Physics 17	3	Physics 18	3
Drawing 1	2	Drawing 2	2
Physical Education		Physical Education	
	17		17

Three weeks of Surveying S60 in summer. Credit, 3 semester hours.

Sophomore Year

Mathematics 59	4	Mathematics 60	4
Physics 57	3	Physics 58	3
Statics 57	3	Kinetics-Mechanism 52	4
Electrical Engineering 51	3	Electrical Engineering 52	3
Economics 51	3	Economics 52	3
Steam Engineering 55	2	Physical Education	
Physical Education			17
	18		

Junior Year

Theory of D. C. Circuits 151	4	Theory of A. C. Circuits 152	3
Hydraulics 128	3	Strength of Materials 107-109	4
Electrical Circuits Lab. 161	1	Electrical Circuits Lab. 162	1
Heat Power Engineering 103	3	Heat Power Engineering 104	3
Mathematics 131	3	Electrical Measurements 104	3
Mechanical Engineering Laboratory 115	1	Mechanical Engineering Laboratory 116	1
	15		15

Senior Year

A. C. Machinery 257	3	A. C. Machinery 258	3
Electric Power Trans. 159	3	Electric Power Stations 158	2
Communication 261	3	Communication 262	4
D. C. Machinery 155	2	Seminar 166	1
Electrical Machinery Laboratory 163	1	Electrical Machinery Laboratory 164	1
Seminar 165	1	Electives	6
Electives	6		17
	19		

In conformance with the wishes of the United States armed services, during wartime the curriculum in electrical engineering will emphasize particularly those aspects of theory and practice which are encountered principally in the field of electrical communications. During 1944-1945 the Senior curriculum has been modified to include intensive additional classroom and laboratory training in radio, with particular reference to ultra-high frequency techniques.

GROUP III

MECHANICAL ENGINEERING

Freshman Year

FIRST SEMESTER	S.H.	SECOND SEMESTER	S.H.
Mathematics 9	5	Mathematics 10	5
Chemistry 1	4	Chemistry 2	4
English 1	3	English 2	3
Physics 17	3	Physics 18	3
Drawing 1	2	Drawing 2	2
Physical Education		Physical Education	
	17		17

Three weeks of Surveying S60 in summer. Credit, 3 semester hours.

Sophomore Year

Mathematics 59	4	Mathematics 60	4
Physics 57	3	Physics 58	3
Statics, G. E. 57	3	Kinetics-Mechanism 54	5
Const. Processes 51	3	Steam Engineering 55	2
Economics 51	3	Economics 52	3
Physical Education		Physical Education	
	16		17

Junior Year

Fluid Mechanics 105	3	Machine Design 150	3
Str. of Materials 107-109	4	Aeronautics 108	3
Electrical Engg. 153	3	Electrical Engg. 154	3
Thermodynamics 101	3	Thermodynamics 102	3
M. E. Lab. 113	1	M. E. Lab. 114	2
Elective	3	Elective	3
	17		17

Senior Year

Mechanical Option

Machine Design 151	3	Industrial Engg. 158	3
Int. Comb. Eng. 155	3	Power Plants 162	3
Heating and Air Cond. 153	3	Refrigeration 154	3
M. E. Lab. 159	2	M. E. Lab. 160	2
Seminar 199	1	Seminar 200	1
Electives	5	Electives	5
	17		17

Aeronautics Option

Machine Design 151	3	Industrial Engg. 158	3
Int. Comb. Eng. 155	3	Airplane Design 172	3
Airplane Design 171	3	Airplane Engines 156	3
Aerodynamics 173	2	Aerodynamics 174	2
M. E. Lab. 159	2	Aeronautics Lab. 176	2
Seminar 199	1	Seminar 200	1
Elective	3	Elective	3
	17		17

Note: The Aeronautics Option for Senior Mechanical Engineering students will not be offered while the Navy College Training Program is in operation.

COURSES OF INSTRUCTION

COLLEGE OF ENGINEERING

NOTE: *Courses primarily for Freshmen and Sophomores are numbered from 1 to 99; those primarily for Juniors and Seniors from 100 to 199; those primarily for Seniors and graduates from 200 to 299. The amount of credit for each course is given in semester hours following the description of the course.*

The designation (W) *or* (E) *indicates that the course is to be given on the West Campus or on the East Campus. The designation* (W & E) *indicates that the course will be given on each campus.*

Odd-numbered courses are offered in the fall semester and even-numbered courses are offered in the spring semester. Double numbers indicate that the course is a year course and must be continued throughout the year if credit is received.

GENERAL ENGINEERING

1-2. Engineering Drawing.—The study of mechanical drawing with emphasis on drawing parts, elementary machines, dimensioning, and working drawings; pencil and ink technique; elementary drawing board geometry, including point line and plane relations, and elementary work in developments and intersections. **4 s.h.** (E) STAFF

5. Descriptive Geometry.—The study of drawing board problems involving point, line, and plane relationships; development of solids; intersections of solids and concurrent noncoplanar forces, with emphasis on practical applications. **2 s.h.** (E) STAFF

51-52. Technical Drawing.—For liberal arts students in training for war service, either military or civil. Elementary principles of machine, structural, and topographic drawing. Nine laboratory hours. **6 s.h.** (E)
ASSISTANT PROFESSOR L. HALL

57. Statics.—Concurrent forces, parallel forces, nonconcurrent and nonparallel forces, centroids, friction, moment of inertia. Prerequisites: course G. E. 1-2, Mathematics 9 and 10. **3 s.h.** (E) STAFF

58. Kinetics.—Translation, rotation, work, energy, and momentum. Prerequisites: course G. E. 57 and Mathematics 59. **3 s.h.** (E) STAFF

107. Strength of Materials.—Elastic bodies under stress; flexure of simple overhanging, fixed, and continuous beams; columns; combined stresses, etc. For Civil Engineering students the laboratory work is included in course 118. Other students should take course G. E. 109 for laboratory. Prerequisite: course G. E. 57. **3 s.h.** (E) STAFF

109. Strength of Materials Laboratory.—Concurrent with course G. E. 107. **1 s.h.** (E) Either semester. STAFF

128. Hydraulics.—Hydrostatics; flow of water through orifices, weirs, pipes, and open channels; general principles of water wheels and turbines. Prerequisite: course G. E. 57. **3 s.h.** (E) Either semester. STAFF

151-152. Elements of Cartography.—For liberal arts students in training for war service, either military or civil.

Development and uses of maps and charts; scales, symbols, contours, and profiles; construction of projections; field and office computations, and control plotting; sources for compilation, and the applications of aerial photography; preliminary and final drafting, and reproduction. One-hour class and six laboratory hours. **6 s.h.** (E) ASSISTANT PROFESSOR L. HALL

CIVIL ENGINEERING

PROFESSORS BIRD AND HALL; ASSISTANT PROFESSOR JACOBS; MR. WILLIAMS

S60. Plane Surveying.—Use of instruments; transit, stadia, compass, and plane table surveying; simple triangulation; determination of meridian by observation on Polaris; differential and profile leveling; setting grade stakes; calculation of bearings, latitudes, and departures; areas by planimeter; methods of plotting, survey and plot of sections of the campus by stadia, and transit and tape. Eight hours a day, three weeks, Summer Session. Prerequisite: course G. E. 1 and trigonometry. **3 s.h.** (E) STAFF

61. Higher Surveying.—Care and adjustment of instruments; topographical surveying; surveys and resurveys; laying out and division of land; public land system; further calculations, omitted measurements, areas by double longitude; quantities from profiles and cross sections. Prerequisite: course S60. **2 s.h.** (E) MR. WILLIAMS

63-64. Route Surveying.—Thorough drill in the calculation and laying out of simple, compound, and easement curves, widening of curves, vertical curves, setting slope stakes, ordinary earthwork computations, and mass diagrams. Prerequisite: course S60. **4 s.h.** (E) STAFF

70. Civil Engineering Drawing.—Elements of topographical and structural drafting. Two three-hour drawing periods. Prerequisite: courses G. E. 1-2. **2 s.h.** (E) PROFESSOR BIRD

112. Practical Astronomy and Navigation.—Determination of time, longitude, latitude, and azimuth. Pilotage, dead reckoning, celestial navigation. Observations and calculations. Prerequisite: S60 or with the consent of the instructor. **3 s.h.** (E) PROFESSOR BIRD

115. Highway Engineering.—Location, construction, and maintenance of roads and pavements; dust prevention; road economics. **3 s.h.** (E) PROFESSOR HALL

118. Materials of Engineering.—Study and testing of materials commonly used in engineering. Prerequisite: course G. E. 107 or concurrent. **3 s.h.** (E) MR. WILLIAMS

119. Railroad Engineering.—Differences between highway and railway practice affecting curves and earthwork. Frogs, switches, and crossings. Preliminary and location survey of a railway of sufficient length to secure familiarity wtih methods of actual practice. Paper location with estimate of cost. Prerequisite: courses 63-64. **3 s.h.** (E) PROFESSOR BIRD

120. Railroad Engineering.—Construction and maintenance of track and trackwork, economics, and operating conditions affecting location. Prerequisite: courses 63-64. **2 s.h.** (E) PROFESSOR BIRD

123-124. Sanitary Engineering.—

(a) Hydrology.—Factors affecting precipitation; evaporation from land and water surfaces; relation of precipitation to run-off; estimating run-off; floods and flood flows. Stream gauging.

(b) Public Water Supply.—Quantity and quality of water required, hydraulics of wells, reservoirs, works for purification and distribution of water. Standard laboratory tests for chemical and bacteriological examination of water.

(c) Sewerage.—Sewerage systems, rainfall and storm water flow, sizes of storm and sanitary sewers, sewage disposal. Standard laboratory tests of sewage. Prerequisite: course G. E. 128. **7 s.h.** (E) PROFESSOR HALL

131. Steel Structures—Stresses.—Roofs, parallel chord bridges under all types of loads, inclined top chord bridges, including subdivided panels, wind bracing. Prerequisite: course G. E. 57. **4 s.h.** (E) PROFESSOR BIRD

132. Steel Structures—Design.—Built beams, plate girders, tension members, compression members, tension and compression members, end posts, stringers, floor beams, pins, plates, etc. Drafting. Prerequisites: courses G. E. 107 and 131. **4 s.h.** (E) PROFESSOR BIRD

133. Reinforced Concrete.—Theory and design of reinforced concrete beams, slabs, columns. Prerequisite: course G. E. 107. **3 s.h.** (E) PROFESSOR BIRD

134. Advanced Reinforced Concrete.—Retaining walls, foundations, buildings, rigid frames. Prerequisite: courses 133 and 135. **3 s.h.** (E) PROFESSOR BIRD

135. Soils and Foundations.—Fundamental relations and soil classification, Atterberg limits, capillary phenomena and permeability of soils, soil stabilization. Different behavior of granular and plastic soils affecting the foundations of structures, earth pressure against retaining walls. Prerequisite: course G. E. 107. **3 s.h.** (E) ASSISTANT PROFESSOR JACOBS

137-138. Seminar.—Students are required to make reports and to talk on current engineering literature or on such other topics as may be assigned. **2 s.h.** (E) STAFF

143-144. Projects in Civil Engineering.—This course may be assigned by the Chairman of the Department to certain Seniors who have shown an apitude for research in one distinct field of civil engineering, in which case it may be substituted for certain general civil engineering courses. **3-6 s.h.** (E) Either semester. STAFF

240. Indeterminate Structures.—Introductory course dealing with the application of theory of least work, deflection, and rotation to indeterminate stresses. Problems are solved analytically, graphically, and by deformeter. Prerequisite: course 131 and ability to read French or German. **3 s.h.** (E) PROFESSOR BIRD

ELECTRICAL ENGINEERING

PROFESSOR SEELEY; ASSISTANT PROFESSOR MEIER; MESSRS. KRAYBILL AND VAIL

51-52. Survey of Electrical Engineering.—A general survey course covering the entire field of electrical engineering, intended to give the electrical engineering student a general preview of the subject as a whole. Required of Sophomores. Prerequisites: Freshman mathematics and concurrent physics. **6 s.h.** (E) ASSISTANT PROFESSOR MEIER

151. Theory of Direct Current Circuits.—A course consisting of lectures and recitations covering the fundamental theory of direct current circuits, and electric and magnetic fields. Prerequisites: course 51-52, Physics 57-58, Mathematics 59, 60. Mathematics 131 should be taken concurrently. **4 s.h.** (E) MR. VAIL

152. Theory of Alternating Current Circuits.—A course covering the algebra of vectors and complex quantities, nonsinusoidal waves, polyphase circuits, harmonics, and unbalanced three-phase circuits. Two-hour class, two-hour computation. Prerequisites: course 151, Mathemtaics 131. **3 s.h.** (E) MR. VAIL

153-154. Principles of Electrical Engineering.—An elementary course consisting of lectures, recitations, and laboratory covering the principles of direct and alternating current circuits, machinery, and their application, designed especially for students in civil and mechanical engineering. This course includes one three-hour period in the electrical machinery laboratory per week. Prerequisite: Physics 57-58. 6 s.h. (E) MESSRS. KRAYBILL AND VAIL

155. Direct Current Machinery.—A study of the principles which underlie the design and operation of all types of direct current machinery. Prerequisites: courses 151, 161-162. 2 s.h. (E) ASSISTANT PROFESSOR MEIER

156. Electric Transportation.—Construction, operation, and uses of electric equipment in air, land, and sea transportation. Elective. Prerequisites: courses 151, 152, 161-162, or 153-154. 3 s.h. (E) MR. KRAYBILL

157. Industrial Applications of Electrical Equipment.—A course of lectures, demonstrations, and recitations dealing with the basic principles of the utilization of a wide variety of electrical equipment in industrial practice. Industrial control and motor applications with a short review of motor performance. Electronic equipment and applications. Elective. Prerequisite: course 153-154. 3 s.h. (E) ASSISTANT PROFESSOR MEIER
[Not offered 1944-45]

158. Electric Power Stations.—A course of lectures and recitations pertaining to the design, construction, and operation of electric power stations, both steam and hydraulic. Consideration of prime movers; generating machinery; switchboards; instruments, relays, and protective devices; operation and management; visits to neighboring plants. Prerequisites: courses 151, 152, and M. E. 103-104. 2 s.h. (E) MR. VAIL

159. Electric Power Transmission.—A course of lectures and recitations on the factors involved in the transmission of electrical energy over long distances and the use of hyperbolic functions in the solution of transmission line problems. Two-hour class, two-hour computation. Prerequisite: courses 151, 152. 3 s.h. (E) PROFESSOR SEELEY

161-162. Electrical Circuits Laboratory.—This course provides experimental verification of the theory developed in courses 151 and 152, and should be taken concurrently. Three hours per week. 2 s.h. (E)
PROFESSOR SEELEY, MR. VAIL

163-164. Electrical Machinery Laboratory.—A study of the technique of testing electrical machines and a thorough analysis of their performance. Concurrent with courses 155, 258. 2 s.h. (E) ASSISTANT PROFESSOR MEIER

165-166. Electrical Engineering Seminar.—Seniors are required to present reports and dissertations on material appearing in current engineering literature. Juniors may participate, but without credit. 2 s.h. (E)
MR. VAIL AND STAFF

173-174. Projects in Electrical Engineering.—Project work may be undertaken only by those who show special aptitude, or who have had previous experience on some problem. The consent of the Chairman of the Department must be obtained before registering. Seniors only. Elective credit. 3-6 s.h. (E)
PROFESSOR SEELEY AND STAFF

202. Fundamentals of Radio.—An elementary course covering the principles underlying radio communication, including vacuum tubes, vacuum-tube circuits, oscillating circuits, antennae, radiation, transmission, and reception. Designed especially for civil and mechanical engineering students. Prerequisite: course 153-154. 3 s.h. (E) MR. KRAYBILL

257-258. Alternating Current Machinery.—A course covering the theory underlying the design, construction, and operation of synchronous generators, transformers, polyphase induction and synchronous motors, single-phase motors of all types, converters and rectifiers. Prerequisites: courses 152, 155. **6 s.h.** (E) ASSISTANT PROFESSOOR MEIER

261. Communication Engineering, Audio Frequency.—An advanced course on the principles underlying voice-frequency communication covering nature of speech and sound, wave propagation over metallic circuits, filters; resistance, inductance, capacitance at audio frequencies; transmission characteristics of communication equipment. Two-hour class, three-hour laboratory. Prerequisites: courses 151, 152, and Mathematics 131. **3 s.h.** (E)
PROFESSOR SEELEY, MR. KRAYBILL

262. Communication Engineering, Radio Frequency.—An advanced course on the principles underlying radio communication, covering vacuum tubes, vacuum-tube circuits, oscillating and coupled circuits, antennae, radiation, transmission, reception, and ultra-high frequency techniques. Three-hour class, three-hour laboratory. Prerequisite: course 261. **4 s.h.** (E)
PROFESSOR SEELEY, MR. KRAYBILL

263-264. Mathematical Analysis of Electrical Circuits.—An advanced course on the detailed mathematical analysis of certain circuits used in electrical engineering, with an introduction to the use of operational calculus as applied to electrical circuits. Elective. Prerequisites: courses 151, 152, and Mathematics 131. **6 s.h.** (E) PROFESSOR SEELEY

MECHANICAL ENGINEERING

PROFESSOR WILBUR; ASSISTANT PROFESSORS HINTON, LEWIS, AND REED; MESSRS. COOKE, PATTINSON, AND THEISS

51. Constructive Processes.—Recitation course covering fundamentals of metallurgy and general processes of casting, forging, and machining. Demonstrations of basic machining operations are made. Prerequisite: Chemistry 2. **3 s.h.** (E) MESSRS. COOKE, PATTINSON, AND THEISS

52. Kinetics-Mechanism.—For E. E. Students.—Motions of particles. Applications of Newton's Laws of Motion to motions of rigid bodies, principles of work and energy. Linkages, cams, gears, trains of mechanism. Three recitations, three laboratory hours. Prerequisites: G. E. 2, G. E. 57, Mathematics 59. Mathematics 60 concurrently. **4 s.h.** (E)
ASSISTANT PROFESSORS HINTON, REED AND MESSRS. PATTINSON AND THEISS

54. Kinetics-Mechanism.—For M. E. Students.—Motions of particles. Applications of Newton's Law of Motion to motions of rigid bodies; principles of work, energy, impulse and momentum. Linkages, belts, ropes, chains, cams, gears, trains of mechanism. Three recitation hours, six laboratory hours. Prerequisites: G. E. 2, G. E. 57, Mathematics 59. Mathematics 60 concurrently. **5 s.h.** (E) ASSISTANT PROFESSORS HINTON, REED AND MESSRS. PATTINSON AND THEISS

55. Steam Engineering.—Elementary principles of boilers, engines, turbines, and auxiliaries; properties of steam; fuels and combustion. Prerequisite: Physics 18. **2 s.h.** (E) PROFESSOR WILBUR AND MESSRS. COOKE AND PATTINSON

101-102. Engineering Thermodynamics.—A study of thermodynamic properties and processes of gases, vapor and gas-vapor mixtures; cycles; efficiencies and performance of steam power plant equipment. Three recitations. Prerequisites: M. E. 55, Physics 58, and Mathematics 60. **6 s.h.** (E)
PROFESSOR WILBUR AND ASSISTANT PROFESSOR HINTON

103-104. Heat Power Engineering.—A short course in engineering thermodynamics combined with applications to power plant design. For civil and electrical engineering students. Prerequisites: Mathematics 60, M. E. 55. **6 s.h.** (E) ASSISTANT PROFESSOR REED

105. Fluid Mechanics.—Fluid statics; kinematics of fluid flow; application of fluid dynamics theory to flow through orifices, weirs, and pipes; general principles of centrifugal pumps and turbines. Prerequisite: M. E. 54. **3 s.h.** (E) PROFESSOR WILBUR AND ASSISTANT PROFESSOR HINTON

108. Aeronautics.—A general course applying fluid mechanics principles to airfoils, propellers, and the complete airplane. Prerequisite: M. E. 105. **3 s.h.** (E) MESSRS. PATTINSON AND THEISS

M. E. 113-114. Junior Mechanical Engineering Laboratory.—Open only to M. E. students. First semester, three laboratory hours, devoted to laboratory studies and reports on instruments for mechanical engineering testing; experiments in fluid mechanics. Second semester, six laboratory hours; experiments and reports in thermodynamics, boiler inspection, air compression, injectors, steam and fuel calorimetry, flue gas analysis. Prerequisite: M. E. 55. M. E. 101-102 concurrently. **3 s.h.** (E) ASSISTANT PROFESSOR HINTON, MESSRS. COOKE, PATTINSON, AND THEISS

115-116. Junior Mechanical Engineering Laboratory.—For C. E. and E. E. students who are taking M. E. 103-104. Experiments and reports on measuring instruments and apparatus, flow of air, steam and water, economy of boilers, steam and internal combustion engines. Three laboratory hours. **2 s.h.** (E) ASSISTANT PROFESSOR HINTON AND MR. PATTINSON

150-151. Machine Design.—Application of principles of Strength of Materials, Constructive Processes, and Engineering Drawing to design of riveted and welded connections, pressure vessels, and machine elements, followed by design of at least one complete machine. Two recitations, three laboratory hours. Prerequisites: G. E. 107, M. E. 51, M. E. 54. **6 s.h.** (E) ASSISTANT PROFESSORS HINTON AND REED

153. Heating and Air Conditioning.—Fundamentals of heating and air conditioning, determination of heat losses and gains, design of steam, hot water and warm air heating and air conditioning systems for homes, offices, and industrial bulidings. Prerequisites: M. E. 102 or M. E. 104. M. E. 159 concurrently. **3 s.h.** (E) ASSISTANT PROFESSOR REED AND MR. COOKE

154. Refrigeration Engineering.—Fundamentals of refrigeration theory and design, with applications in industry. Prerequisites: M. E. 102 or M. E. 104. M. E. 160 concurrently. **3 s.h.** (E) ASSISTANT PROFESSOR REED

155. Internal Combustion Engines.—Principal cycles; fuels and fuel mixtures; effect of real mixtures on theoretical cycles; combustion; carburetion and fuel injection. Thermodynamic analysis of engine performance. Modern developments in the internal combustion engine. Three recitations. Prerequisite: M. E. 101-102. **3 s.h.** (E) ASSISTANT PROFESSOR HINTON

156. Airplane Engines.—A study of the qualities desirable in an airplane engine and design calculations. These calculations include such items as indicator card, inertia and gas loads, crankshaft vibration, and fin area required for proper cooling. Three recitations. Prerequisite: M. E. 155. **3 s.h.** (E) MR. ———

158. Industrial Engineering.—A study of the industrial growth and present tendencies of productive industries as concerns the engineer. Specific topics treated are: plant location; organization; production and cost controls, wage payment, etc. Seniors only. Three recitations. **3 s.h.** (E) MR. THEISS

159. Senior Mechanical Engineering Laboratory.—Tests and reports on performance and economy of internal combustion engines, steam engines and turbines; heat transfer, radiator tests, and heat balances. Required of all Seniors in mechanical engineering. Six laboratory hours. Prerequisite: M. E. 114. **2 s.h.** (E) ASSISTANT PROFESSOR HINTON, MESSRS. COOKE AND THEISS

160. Senior Mechanical Engineering Laboratory.—Required of all Mechanical Option Seniors. Tests and reports on boiler, engine, turbine, condenser and accessories; heat transfer; refrigeration equipment. Six laboratory hours. Prerequisite: M. E. 159. M. E. 154, 162 concurrently. **2 s.h.** (E) ASSISTANT PROFESSOR HINTON, MESSRS. COOKE AND THEISS

162. Power Plant Calculations.—Study of economic and engineering factors in developing steam power plants. Consideration of the performance of boilers, prime movers, condensers and various auxiliaries in various groupings as they affect the plant heat balance. Three recitations. Prerequisites: M. E. 101-102 or 103-104. **3 s.h.** (E) PROFESSOR WILBUR

171-172. Airplane Design.—The design of an airplane to accomplish a specific purpose, this design to include three-view drawing, determination of air and inertia loads, and stress analysis as proof of structure. All work must be in a form acceptable to the Civil Aeronautics Board. Three laboratory periods. Prerequisites: M. E. 150, M. E. 108. M. E. 151 concurrently. **6 s.h.** (E) MR. ————

173-174. Aerodynamics.—A review of the physics of air leading into a study of airflow around aerodynamical shapes, this study progressing into an analysis of air forces that terminates in performance estimation. Two recitations. Prerequisites: M. E. 105, M. E. 108. **4 s.h.** (E) MR. ————

176. Aeronautics Laboratory.—This course includes performance tests on airplane engines, installation problems and operational characteristics of air craft instruments, and tests of aerodynamical shapes in the wind tunnel. Two laboratory periods. M. E. 174 concurrently. **2 s.h.** (E) MR. ————

197-198. Projects in Mechanical Engineering.—This course may be assigned by the Chairman of the Department to certain Seniors who express a desire for such work and who have shown aptitude for research in one distinct field of mechanical engineering. Elective credit either semester. **3-6 s.h.** (E) PROFESSOR WILBUR AND STAFF

199-200.—Seminar.—Students are required to make reports and to talk on current engineering literature or on such topics as may be assigned. **2 s.h.** (E) STAFF

REQUIRED NONENGINEERING SUBJECTS

1-2. General Inorganic Chemistry.—Lectures, recitations, and laboratory work on the elementary principles of chemistry and on the occurrence, preparation, properties, and uses of the elements and their compounds. It is desirable, though not required, that students taking this course shall have taken elementary physics either in high school or in college. One lecture, two recitations, and three laboratory hours, throughout the year. **8 s.h.** (W & E) STAFF

51-52. Principles of Economics.—For Sophomores. **6 s.h.** (W & E) PROFESSOR SPENGLER, ASSISTANT PROFESSOR LANDON, DR. GREGORY, MR. VAN VOOORHIS

English L.—Those freshmen whose scores in the placement tests are too low to justify their admission into English 1 are required to have credit for English L before they may enter English 1. **3 s.h.** (E) DR. HARWELL AND MR. FITZGERALD

1-2. English Composition.—All Freshmen are required to take course 1 and course 2.

Students who fail in English 1 or 2 must repeat the course in the following semester. Students in courses 1 and 2 who fail to make an average of "C" or better are strongly advised to earn credit for English 53 during their Sophomore year. **6 s.h.** (W & E)

ASSOCIATE PROFESSOR BLACKBURN, ASSISTANT PROFESSORS JORDAN AND SANDERS, DR. HARWELL, MESSRS. BRICE AND FITZGERALD

53. English Composition.—A second course in composition for Sophomores. **3 s.h.** *Repeated in the second semester.* (W & E) STAFF

9-10. First-Year Engineering Mathematics.—College algebra, plane trigonometry, introduction to spherical trigonometry, plane analytic geometry, introduction to solid analytic geometry. Designed primarily for students in the Engineering Groups. **10 s.h.** (E) STAFF

59-60. Second-Year Engineering Mathematics.—A correlated development of differential and integral calculus. Designed primarily for students in the Engineering Groups. Prerequisite: course 9-10 or the equivalent. **8 s.h.** (E) STAFF

131. Elementary Differential Equations.—Solution of elementary types; formation and integration of equations arising in applications. Prerequisite: integral calculus. **3 s.h.** (E) STAFF

17-18. Engineering Physics.—A course covering the field of general physics with emphasis on fundamental principles. Open only to engineering students. **6 s.h.** (E) STAFF

57-58. Engineering Physics.—This course is a continuation of Physics 17-18 open to engineering students upon satisfactory completion of 17-18. Two lectures (E) and one three-hour laboratory (W) each week. **6 s.h.** STAFF

104. Electrical Measurements.—Exact measurements of resistance, current, voltage, inductance and capacity. A fundamental course in electrical engineering or course 103 is a prerequisite. Two lectures and one three-hour laboratory period per week. **3 s.h.** (W) ASSOCIATE PROFESSOR CONSTANT

PARTIAL LIST OF RECOMMENDED ELECTIVE SUBJECTS

57-58. (Economics) First-Year Accounting.—Elementary principles of single proprietorship, partnership, and corporation accounting. Supervised laboratory periods will be arranged. **6 s.h.** (W) STAFF

103. (Economics) Transportation.—Essential features, problems, and competitive positions of rail, highway, water, and air transportation. Special attention is devoted to valuation, rates, and regulation as applied to railway transportation. Collateral reading and the preparation of papers are required. *For Juniors and Seniors.* **3 s.h.** (W) ASSISTANT PROFESSOR LANDON

105. (Economics) Industrial Management and Business Forecasting.—A study of the organization and management of industry, with emphasis upon the business applications of the principles developed. Problems of interrelations of functions operating in the several fields of management, such as production control, personnel, and the forecasting of business conditions. *For Juniors.* **3 s.h.** (W) DR. GREGORY

115. **(Economics) Economic Geography.**—*This course is not open to students who have received credit for Economics A.* The study of the interrelation of human activities and environmental elements. The discussion embraces location, maps and their interpretation, the major climatic regions, seasonal influences, weather, lands and their uses, soils and minerals, bodies of water, plants, animals, and the work of man as environmental factors. **3 s.h.** (E)
ASSISTANT PROFESSOR LEMERT

138. **(Economics) Business Statistics.**—A semester's course in elementary statistics designed principally for students of economics and business administration. The material is also of interest to those specializing in engineering, forestry, political science, sociology, and other subjects. Very little algebra and no higher mathematics are required. Offered both semesters. **3 s.h.**
ASSISTANT PROFESSOR SMITH

181-182. **(Economics) Business Law.**—The fundamental principles of law as applied to common business transactions. The topics presented are: contracts, agency, bailments, sales, negotiable instruments, partnerships, corporations, and bankruptcy. **6 s.h.** (W) MESSRS. BRYSON AND MILLER

123-124. **Shakespeare.**—**6 s.h.** (W) ASSISTANT PROFESSOR TALBERT

145-146. **English Poetry, 1832-1900.**—**6 s.h.** (W)
ASSISTANT PROFESSOR SANDERS

151. **(English) Public Speaking.**—A course in the fundamentals of public speaking with emphasis upon the effective presentation of ideas. **3 s.h.** (W)
MR. BADENOCH

152. **(English) Argumentation.**—A course dealing with the principles of argumentation and debating with special emphasis upon brief-making and practice-speaking. Public questions are studied as parallel work. **3 s.h.** (W)
MR. BADENOCH

103. **(Botany) General Bacteriology.**—Laboratory and lectures. **4 s.h.** (W) First semester. (E) Second semester. PROFESSOR WOLF

51. **General Geology.**—This course is designed to give a general view of the surface features of the earth, their origin, structure, and materials. Illustrative materials are studied in the laboratory. Excursions are made to neighboring points where the principles of the science are studied in the field. Three one-hour lectures or recitations and one three-hour laboratory. **4 s.h.** (W)
ASSOCIATE PROFESSOR BERRY

52. **General Geology.**—This course is designed to give some knowledge of the chief events of the earth's history. Excursions will be made to suitable neighboring localities. Three one-hour lectures or recitations and one three-hour laboratory. Prerequisite: Geology 51. **4 s.h.** (W)
ASSOCIATE PROFESSOR BERRY

51-52. **History of Art.**—The survey course for upperclassmen treats each art as a unit, relating it to its background and its companion arts wherever possible, but leaving many of the problems of correlation to the initiative of the student. The development of architecture is considered in course 51, the development of sculpture and painting in course 52. Courses 51 and 52 are both offered each semester. Credit for a single semester will be given only to Seniors electing it during their last semester. The courses are not open to Freshmen or to students who have had course 1-2. **6 s.h.** (W & E)
MISS AVERILL

219. **Electron Tubes and Their Application.**—Theory and application of electron tube circuits with special emphasis on their use in scientific research. Two hours of lecture and one three-hour laboratory per week. **3 s.h.** (W)
PROFESSOR NIELSEN

FEES AND EXPENSES

The following tables show the general fees and charges collected from all students and the special fees collected from those taking courses in the sciences and in history. All fees for each semester are due and payable, unless otherwise specified, at the time of registration at the beginning of that semester, and no student is admitted to classes until arrangements have been made with the Treasurer of the University for the settlement of fees.

GENERAL FEES

Matriculation, per semester	$ 25.00
Tuition, per semester	100.00
Room-rent—See the detailed statement that follows.	
Athletic Fee, admitting students to all athletic contests held on the University grounds, per semester	5.00
Damage Fee, payable annually at the time of first registration	1.00
Medical Fee, per semester	5.00
Library Fee, per semester	5.00
Commencement Fee, payable annually at the beginning of the second semester	3.00
Publication Fee:	
First semester	2.50
Second semester	3.00
Diploma Fee, payable by candidates for degrees at the beginning of the second semester, refunded if the diploma is not awarded	5.00
Tuition, Registration, Room-rent, Summer Surveying S10	26.00

LABORATORY AND MATERIALS FEES

Botany 1, 2, 52, 55, 104, 202, 204, 221, 255, and 256	$ 2.50
Botany 51, 103, 151, 156, 203, 216, and 252	5.00
Forest Botany 224 and 253	2.50
Chemistry 1, 2, 61, 70, 131, 132, 153, 154, 215, 216, 261, and 262	7.00
Chemistry 151, 152, 241, 242, 253, and 254	8.50
Education 1, 58, 68, and 101	1.00
Education 112, 115, 116, 122, and 131	7.50
Education 208 (for testing materials in lieu of text)	2.50
Engineering	
Civil S60—See *Summer Session Bulletin.*	
Civil 61, 63, 64, 112, 118, 119, 120, 123, 124, 135, 143, 144, and 240	2.00
Electrical 153, 154, 161, 162, 163, 164, 261, 262	2.00
General 109	2.00
Mechanical 113, 114, 159, 160, 176	2.50
Forest Botany 224 and 253	2.50
Forestry 224, 253, 254, 259, 260, 264, 357a, and 358a	2.50
Forestry 261, 351, 352, 357b, 358b	2.50 to 5.00
Geology 51, 52, 101, 151, and 152	2.50
Geology 102	5.00
Field trip in Geology 51-52 and 101-102 at cost.	
History 91 and 92	3.00

No texts are required in these courses, but a fee of $3.00 is charged, and books are placed in the Library for the use of those taking the courses. This fee is payable at the beginning of the semester and is collected through the office of the Treasurer of the University.

Physics 1 and 2	2.00
Physics 57, 58, 61, 62, 103, 104, 108, 215, 216, 217, 218, and 219	3.00
Physics 51, 52, and 106	5.00
Zoology 1, 2, 92, 161, 204, 219, 220, 222, 274, 306, 324, 343, 353, and 354	3.00
Zoology 53, 151, 156, 224, 229, 303, and 321	5.00

ESTIMATED EXPENSES FOR AN ACADEMIC YEAR

The necessary expenses of a student are moderate; the University dormitories provide thoroughly comfortable and wholesome living conditions at a minimum of cost, while all charges made by the University have been kept low. Incidental expenses depend naturally upon the tastes and habits of the individual, but the actual necessary college expenses for one year, including board, room-rent, and such University fees as tuition, matriculation, commencement, library, damage, and medical, vary from $574.50 to $639.50. Books and laundry are not included in these figures, nor an estimated cost of $20.00 to $25.00 for drawing equipment.

The Athletic and Publication fees, also included in the above figures, while not essentially University fees, are at the request of the students collected by the Treasurer of the University as designated above. The proceeds of these fees are turned over to these distinct and separate student activities. The Athletic Fee, entitling the holder to admission to all athletic contests held on the University grounds, is collected from all regularly enrolled students. The Publication Fee pays for a blanket subscription to the semiweekly student newspaper, the monthly student magazine, and the student yearbook. With all undergraduates this charge is compulsory, but in the case of graduate students it is optional.

DORMITORIES

The regular fee for room-rent in the Southgate Building, set aside for engineering students, is $50.00 per semester (two in a room).

Rooms in Epworth Hall, East Campus, are open to men students for a rental of $30.00 per student, per semester.

Rooms are reserved only for applicants who have been officially accepted by the University, upon application to the Director in the Business Division, College Station, Durham, North Carolina. A reservation fee of $25.00 must accompany the application for a room. The reservation fee is deducted from the room charges at the time of registration for the fall semester. An applicant who is accepted and has a room reserved is not entitled to a refund of the reservation fee unless the request is made on or before August 1.

A resident student in order to retain his room for the succeeding year is requested to make application accompanied by a reservation fee of $25.00 between April 15 and May 15 at the office of the Director in the Business Division. All rooms which have not been reserved on or before May 15 will be considered vacant for the succeeding year and will be reserved in the order in which applictaions are made.

Rooms are rented for no shorter period than one semester, or in the case of a medical student, one quarter, unless by special arrangement with the Director in the Business Division. A period of occupancy other than a semester or quarter and without special arrangement will be charged at a minimum rate of $1.00 each day.

The authorities of Duke University do not assume the responsibility of selecting and assigning roommates, though they will gladly render any assistance possible.

BOARDING ACCOMMODATIONS

It is the policy of the University to furnish board to its students at actual cost. Charges for board are approximately $30.00 per month.

LAWS REGULATING PAYMENTS

The Executive Committee of the Trustees of Duke University has enacted the following regulations, which govern the payment of all fees due the University:

1. The President and Treasurer of the University have no authority to suspend, or in any way alter, these regulations.
2. Matriculation and tuition fees are never refunded.
3. Any student who has failed to pay his bills on the dates advertised in the catalogue is denied the right to attend classes until his account is settled in full.
4. No student is considered by the Faculty as an applicant for graduation until he has settled with the Treasurer for all of his indebtedness to the University.
5. No student who has not settled all his bills with the Treasurer of the University is allowed to stand the mid-year or final examinations of the academic year.

When a student wishes his bills sent to his parents or guardian, the student or his parent or guardian must so notify the Treasurer of the University in writing in due time, but this in no way releases the student from liability to established penalties if his bills are not paid on the dates advertised.

TRANSCRIPTS

Students desiring to transfer from Duke University to another institution are entitled to one transcript of their record. A charge of $1.00 is made for each additional copy.

ENGINEERING ORGANIZATIONS AND FRATERNITIES

American Institute of Electrical Engineers; American Society of Civil Engineers; American Society of Mechanical Engineers; Institute of the Aeronautical Sciences; Delta Epsilon Sigma (Duke Honorary Engineering Fraternity); The Engineering Student Government Association.

OTHER ACTIVITIES FOR WHICH ENGINEERS ARE ELIGIBLE

The Young Men's Christian Association is a branch of the national student Christian Association. It aims to enrich not only the religious life of its members as individuals but also to promote religious group activity. Delegates are sent each year to summer conferences, state conventions, interstate conventions, and the state Bible and missionary institutes. Every class is conducted under the auspices of the Church Board.

Other organizations and activities include the following: Debate Council; Duke University Church (Interdenominational); Hoof and Horn Club; Quadrangle Pictures; Student Religious Council; The Duke Players; Town Boys' Club; Wartime Social Activities Board; and W. H. Pegram Chemistry Club.

(HONORARY—NATIONAL)

Phi Beta Kappa (Scholarship); Phi Eta Sigma (Freshman Scholarship); Pi Mu Epsilon (Mathematics); Sigma Pi Sigma (Physics); Sigma Xi (Scientific Society).

(HONORARY—LOCAL)

Beta Omega Sigma (Sophomore—Men); 9019 (Scholarship—Men).

MUSICAL ORGANIZATIONS AND FRATERNITIES

Kappa Kappa Psi (National Band Fraternity); The Duke University Instrumental Music Association, comprised of members from Duke University Band, Duke University Orchestra, and chamber music groups; The Men's Glee Club; The University Chapel Choir.

(SOCIAL FRATERNITIES—NATIONAL)

(The Men's Panhellenic Council)

Alpha Tau Omega; Beta Theta Pi; Chi Phi; Delta Sigma Phi; Delta Tau Delta; Kappa Alpha; Kappa Sigma; Lambda Chi Alpha; Phi Delta Theta; Phi Kappa Psi; Phi Kappa Sigma; Pi Kappa Alpha; Pi Kappa Phi; Sigma Alpha Epsilon; Sigma Chi; Sigma Nu; Sigma Phi Epsilon; Zeta Beta Tau.

STUDENT PUBLICATIONS

(Publications Council)

Archive (Monthly); *Chanticleer* (Annual); *Chronicle* (Semiweekly); *DukEngineer* (Bimonthly).

HONORS AND PRIZES FOR WHICH ENGINEERS ARE ELIGIBLE

To be eligible for Honors, a student must earn during the year a credit of not less than thirty semester hours. Students in the Freshman, Sophomore, and Junior classes who earn an average of at least two and one-half quality points per semester hour are given Honors. All semester hours on which a student receives a grade are counted in the determination of Honors.

The degree of Bachelor of Arts or of Bachelor of Science with distinction is conferred under the following rules:

Students who have completed a minimum of ninety semester hours in Duke University are eligible for general Honors at graduation. Those who earn an average of at least two and one-half quality points per semester hour are recommended for a degree *magna cum laude*. Those who earn an average of at least two and three-fourths quality points per semester hour are recommended for a degree *summa cum laude*. All semester hours taken in Duke University on which a student receives a grade are counted in the determination of Honors.

PRIZES

The Delta Epsilon Sigma Prize, consisting of an engineering handbook, is awarded each year to the member of the Freshman Class in engineering who is adjudged to be the outstanding student.

Julia Dale Prize in Mathematics. This is a prize of books given annually to the undergraduate who shows the greatest proficiency in the study of the calculus.

The Milmow Prize, consisting of one year's subscription to the *Electrical World,* is awarded each year to that student from North or South Carolina graduating in the Department of Electrical Engineering, who, in the opinion of the Faculty of that department and as shown by his grades, has made the most progress in electrical engineering during his last year in college.

The Institute of the Aeronautical Sciences Awards. Two annual awards, each consisting of a two-year paid-up membership in the Institute and a certificate, presented, respectively, to the student presenting the best paper before a meeting of the Duke student branch of the Institute, and to that student of the Department of Mechanical Engineering making the highest scholastic record in aeronautical engineering courses.

The Sigma Xi Prize. The Society of the Sigma Xi, honorary scientific society, is devoted to the encouragement of scientific research, and seeks to stimulate those who show promise of accomplishment in scientific research. As an encouragement to younger men and women the Duke Chapter of Sigma Xi has established the following prizes to be awarded annually to students resident at Duke University: $20.00 for an undergraduate project or paper, $20.00 for a Master's thesis or its equivalent, and $40.00 for a Ph.D. dissertation or its equivalent. Nominations, recommendations, copies of theses, reports, or other material must be in the hands of the Secretary of the Chapter on or before May 5.

VOLUME 16 February, 1944 NUMBER 2-A

BULLETIN OF DUKE UNIVERSITY

The School of Nursing

1944-1945

PUBLISHED BY THE UNIVERSITY

DURHAM, NORTH CAROLINA

ANNUAL BULLETINS

For General Bulletin of Duke University, apply to *The Secretary,* Duke University, Durham, N. C.

For Bulletin of Undergraduate Instruction, apply to *The Secretary,* Duke University, Durham, N. C.

For Bulletin of The College of Engineering, apply to *The Secretary,* Duke University, Durham, N. C.

For Bulletin of The Graduate School of Arts and Sciences, apply to *The Dean of the Graduate School,* Duke University, Durham, N. C.

For Bulletin of The School of Forestry, apply to *The Dean of the School of Forestry,* Duke University, Durham, N. C.

For Bulletin of The School of Law, apply to *The Dean of the School of Law,* Duke University, Durham, N. C.

For Bulletin of The School of Medicine, apply to *The Dean of the School of Medicine,* Duke University, Durham, N. C.

For Bulletin of The School of Nursing, apply to *The Dean of the School of Nursing,* Duke University, Durham, N. C.

For Bulletin of The Divinity School, apply to *The Dean of the Divinity School,* Duke University, Durham, N. C.

For Bulletin of The Summer Session, apply to *The Director of the Summer Session,* Duke University, Durham, N. C.

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BULLETIN

OF

DUKE UNIVERSITY

THE SCHOOL OF NURSING

1944-1945

DURHAM, NORTH CAROLINA
1944



NURSES' HOMES
343 Beds

PRIVATE DIAGNOSTIC
CLINIC
114 Beds

MAIN HOSPITAL
604 Beds

SCHOOL OF NURSING
262 Students

PUBLIC CLINIC
107,783 Visits
Yearly

MEDICAL SCHOOL
299 Students

FOREWORD

This bulletin is issued for prospective students of nursing. Admissions into any class are made only on the understanding that every decision of the School of Nursing Curriculum Committee shall apply to all students, even though it is made subsequently to their enrollment in the School. At frequent intervals the Committee reviews the records of all students, and those whose progress has been unsatisfactory may be required to leave the School. ONLY THOSE WILL BE ADVANCED WHO, IN THE OPINION OF THE COMMITTEE, GIVE PROMISE OF BEING A CREDIT TO THEMSELVES AND TO THE SCHOOL.

SCHOOL OF NURSING CALENDAR 1944-1945

1944

Jan. 3. Monday—Winter Quarter begins.
March 18. Saturday—Winter Quarter ends.
April 3. Monday—Spring Quarter begins.
April 10. Easter Monday: a holiday.
May 27. Saturday—Commencement.
June 17. Saturday—Spring Quarter ends.
July 3. Monday—Summer Quarter begins.
Sept. 16. Saturday—Summer Quarter ends.
Oct. 9. Monday—Autumn Quarter begins.
Nov. 30. Thanksgiving: a holiday.
Dec. 23. Saturday—Autumn Quarter ends.

1945

Jan. 1. Monday—Winter Quarter begins.
March 17. Saturday—Winter Quarter ends.
April 7. Monday—Spring Quarter begins.
May 26. Saturday—Commencement.
June 16. Saturday—Spring Quarter ends.
July 2. Monday—Summer Quarter begins.
Sept. 15. Saturday—Summer Quarter ends.
Oct. 1. Monday—Autumn Quarter begins.
Nov. 29. Thursday—Thanksgiving: a holiday.
Dec. 22. Saturday—Autumn Quarter ends.

CURRICULUM COMMITTEE OF SCHOOL OF NURSING

FREDERIC MOIR HANES, A.B., A.M., M.D.
Professor of Medicine

WILLIAM ALEXANDRE PERLZWEIG, B.S., A.M., Ph.D.
Professor of Biochemistry

MARGARET ISABEL PINKERTON, R.N., B.S.
Dean and Professor of Nursing Education

MATILDA HOLLEMAN MOSELEY, A.B., R.N., B.S.
Assistant Professor of Nursing Education

FACULTY OF THE SCHOOL OF NURSING

MARGARET ISABEL PINKERTON, R.N., B.S.

Dean of the School of Nursing and Professor of Nursing Education

Diploma, University of Virginia Hospital School of Nursing, 1927; Assistant Superintendent of Nurses, Stuart Circle Hospital, Richmond, Va., 1928-30; Hostess, University of Virginia Hospital, 1930-31; Assistant Superintendent of Nurses, University of Virginia Hospital, 1931-35; B.S. in Nursing Education, Teachers College, Columbia University, 1936; Nursing Arts Instructor, Washington University School of Nursing, St. Louis, Mo., 1936-37; Superintendent of Nurses, Barnes Hospital, 1938-39; *Dean of the School of Nursing and Professor of Nursing Education, 1939—.*

MATILDA HOLLEMAN MOSELEY, A.B., R.N., B.S.

Assistant Professor of Nursing Education

Meredith College, Raleigh, N. C., 1927-29; Duke University, Durham, N. C., 1929-31; Western Reserve, Cleveland, Ohio, 1935-36; Diploma in Nursing, Duke University School of Nursing, 1934; B.S. in Nursing, Duke University School of Nursing, 1936; Surgical Supervisor, 1937-38; Nursing Arts Instructor, 1938-40; *Assistant Professor of Nursing Education, 1943—.*

JULIA ELIZABETH WHITE, A.B., R.N.

Chief Nurse, 65th General Hospital

A.B., Newberry College, Newberry, S. C., 1927; Diploma, Johns Hopkins Hospital School of Nursing, 1930; Head Nurse, Assistant Night Supervisor, Harriet Lane Home, Johns Hopkins Hospital, 1930-32; Assistant Night Supervisor, Duke Hospital, 1933-36; First Assistant to the Dean, 1936-42; *Chief Nurse, 65th General Hospital, 1942—.*

PAULINE A. MARTIN, R.N.

First Assistant to the Dean

Diploma, Duke University School of Nursing, 1937; Head Nurse, Obstetric and Gynecological Ward (White), 1937-39; Head Nurse, Obstetric and Gynecological Ward (Colored), 1939-41; Instructor and Supervisor of Obstetrics and Gynecology, 1941-42. Leave of absence 1942-43. *First Assistant to the Dean, 1943—.*

VERA THOMAS McCULLOCH, R.N.

Second Assistant to the Dean

Diploma, Duke University School of Nursing, 1935; General Duty, 1935-36; Head Nurse, Men's Surgical Ward, 1936-40; Instructor in Surgery and Supervision of Surgical Nursing, 1940-41; *Second Assistant to the Dean, 1941—.*

HILDA CLAIRE BURNHAM, R.N.

Instructor in Principles and Practice of Nursing

Johns Hopkins University, 1925-27 and 1932-34; Diploma, Johns Hopkins Hospital School of Nursing, 1930; Head Nurse, Isolation Ward, Johns Hopkins Hospital, 1930-31; Assistant Night Supervisor, Johns Hopkins Hospital, 1931-33; Night Supervisor, Osler Medical Clinic, Johns Hopkins Hospital, 1933-34; Assistant Supervisor and Ward Instructor, Osler Medical Clinic, Johns Hopkins Hospital, 1934-37; Medical Supervisor and Instructor in Medicine, Duke Hospital, 1937-39; Second Assistant to the Dean, 1939-40; *Instructor in Principles and Practice of Nursing, 1940—.*

HELEN W. ABBOTT, R.N.

Head of Nurses' Residences

Diploma, Johns Hopkins School of Nursing, 1914; Private duty, Baltimore, Md., 1914-15; Operating Room and Pediatric Supervisor, Bellevue Allied Hospitals, 1915-16; Nursing Arts Instructor, Augusta University Hospital, 1917; Supervisor of Nurses' Quarters, Fort Meade, Md., 1918; Practical Nursing Instructor, Army School of Nursing, Fort Meade, Md., 1919; *Head of Nurses' Residences, Duke Hospital, 1930—.*

AUGUSTA LAXTON, R.N., B.S.

Night Supervisor

B.S., Florida State College for Women, Tallahassee, Fla., 1921; Diploma, Johns Hopkins Hospital School of Nursing, 1926; District Nurse, Co-operative Nursing Association, Charlotte, N. C., 1928-30; Night Supervisor, Duke Hospital, 1930-36; Head Nurse, Maternity Clinic, Charlotte, N. C., 1936-39; *Night Supervisor, 1939—.*

MARION FRANCES BATCHELDER, R.N.

Instructor in Operating Room Technique. Supervisor of the Operating Room

Diploma, Peter Bent Brigham Hospital School of Nursing, Boston, Mass., 1920; Head Nurse, 1921-23; Supervisor of Operating Room, Peter Bent Brigham Hospital, 1923-27; Head Nurse, Operating Room, Johns Hopkins Hospital, 1927-30; *Supervisor of Operating Room, 1930—.*

MILDRED M. SHERWOOD, R.N.

Instructor in Pediatrics and Supervisor of Pediatric Service

Diploma, Mount Sinai Hospital, New York City, 1923; Head Nurse, Mount Sinai Hospital, 1923-26; Head Nurse, Johns Hopkins Hospital, 1926-30; *Instructor in Pediatrics and Supervisor of Pediatric Service, 1930—.*

ROSABELLE WEHUNT HAMPTON, R.N.

Instructor in Surgery and Supervisor of Surgical Service

Diploma, Duke University School of Nursing, 1936; Assistant Head Nurse, Duke Hospital, 1936-37; Head Nurse Women's Surgical Ward, 1937-41; University of North Carolina, 1937 and 1940; Teachers College, Columbia University, 1941; *Instructor in Surgery and Supervisor of Surgical Nursing, 1941—.*

RUTH ALEXANDER WILSON, R.N., B.S.

Instructor in Obstetrics and Gynecology and Supervisor of Obstetrical and Gynecological Service

Mitchell College, Statesville, N. C., 1934-36; Diploma, Duke University School of Nursing, 1939; B.S., Duke University School of Nursing, 1940; Assistant Head Nurse, Colored Medical and Surgical Ward, Duke Hospital, 1939-40; Nurses' Corps, United States Navy, 1941; *Instructor and Supervisor of Obstetrics and Gynecology, 1942—.*

EDITH V. BRYANT, R.N., B.S.

Instructor in Medicine and Supervisor of Medical Service

Elon College, Elon College, N. C., 1936-38; Diploma, B.S. in Nursing, Duke University School of Nursing, 1941; Assistant Head Nurse, Men's Surgical Ward, 1941-42; Head Nurse, Men's Surgical Ward, 1942; Head Nurse on Colored Medical and Surgical Ward, 1942-43. *Instructor in Medicine and Supervisor of Medical Service, 1943—.*

JULIA BRADSHAW SUITT, R.N.

Supervisor of Nursing Service in Dispensary

North Carolina College for Women, Greensboro, N. C., 1919-20; Diploma, Duke University School of Nursing, 1934; Assistant Head Nurse, Medical Ward, 1934-36; Head Nurse, Private Surgical Ward, 1936-43. *Supervisor of Nursing Service in Dispensary, 1943—.*

OLIVE HARDING, R.N.

Assistant Supervisor of the Operating Room

Carson-Newman College, Jefferson City, Tenn., 1918-21; Diploma, Kings Mountain Memorial Hospital, Bristol, Va., 1929; Valparaiso University, Valparaiso, Ind., 1923; Night Supervisor, Marsh Hospital, Kingsport, Tenn., 1929; Postgraduate Course in Operating Room, Cook County Hospital, Chicago, Ill., 1930; General Duty, Duke Hospital, 1930-34; Head Nurse in Operating Room, 1934-42; *Assistant Supervisor of the Operating Room, 1942—.*

ELIZABETH SANDERS RIDDLEBERGER, A.B., R.N., M.A.

First Assistant Science Instructor

Agnes Scott College, Decatur, Ga., 1923-27; Diploma, Highland Hospital, Asheville, N. C., 1935; Postgraduate Course in Psychiatric Nursing, Highland Hospital, Asheville, N. C., University of Washington, Seattle, Wash., 1941; William and Mary College, Williamsburg, Va., 1941-42; Assistant Instructor of Nurses, Highland Hospital, Asheville, N. C., 1935-38; Instructor of Nurses, Highland Hospital, Asheville, N. C., 1938-41; General Duty, Duke Hospital, 1942; Assistant Head Nurse on Psychiatry, 1942-43; Head Nurse on Psychiatry and Instructor in Psychiatric Nursing, 1943; *Assistant Science Instructor, 1943—.*

BARBARA BAIN, R.N., B.S.

Second Assistant Science Instructor

Washington University, St. Louis, Mo., 1937-40; Diploma, B.S. in Nursing, Duke University School of Nursing, 1943; *Second Assistant Science Instructor, 1943—.*

BETTY ELAINE STEIGLEMAN, R.N.

First Assistant to the Instructor in Principles and Practice of Nursing

Diploma, Duke University School of Nursing, 1942; Fourth Assistant to the Instructor in Principles and Practice of Nursing, 1942-43. *First Assistant to the Instructor in Principles and Practice of Nursing, 1943—.*

MARY ALICE MOORE, R.N., B.S.

Second Assistant to the Instructor in Principles and Practice of Nursing

Madison College, Harrisonburg, Va., 1937-39; Diploma and B.S. in Nursing, Duke University School of Nursing, 1942; Head Nurse on Men's Surgical Ward, 1942-43. *Second Assistant to the Instructor in Principles and Practice of Nursing, 1943—.*

KATIE ADAMS HODGE, R.N., B.S.

Third Assistant to the Instructor in Principles and Practice of Nursing

Madison College, Harrisonburg, Va., 1938-39; Diploma, B. S. in Nursing, Duke University School of Nursing, 1943; *Third Assistant to the Instructor in Principles and Practice of Nursing, 1943—.*

ELSIE GERTRUDE MOSS, R.N.

First Assistant to the Night Supervisor

Diploma, Philadelphia General Hospital, Philadelphia, Pa., 1935; Staff Nurse, Duke Hospital, 1935-41; Second Assistant to the Night Supervisor, 1941-42; *First Assistant to the Night Supervisor, 1942—.*

MARY FRANCES FARRAR, R.N., B.S.

Second Assistant to the Night Supervisor

Greensboro College, Greensboro, N. C., 1938-40; Diploma and B.S. in Nursing, Duke University School of Nursing, 1943; *Second Assistant to the Night Supervisor, 1943—.*

ELLEN KEESEE CRAVER, R.N., B.S.

Second Assistant to the Night Supervisor

Averett College, Danville, Va., 1938-39; Madison College, Harrisonburg, Va., 1939-40; Diploma and B.S. in Nursing, Duke University School of Nursing, 1943; *Second Assistant to the Night Supervisor, 1943—.*

LILA WELLS MASSENGILL, R.N., B.S.

Health Nurse

Winthrop College, Rock Hill, S. C., 1938-40; Diploma and B.S. in Nursing, Duke University School of Nursing, 1943; Psychiatric Clinic nurse, 1943-44; *Health Office, 1944—.*

HEAD NURSES

GRACE SHIELDS, R.N.

Head Nurse on Private Surgical Ward

Diploma, Memorial Hospital, Danville, Va., 1930; Private Duty, 1930-31; General Duty, Duke Hospital, 1931-35; Assistant Head Nurse on Private Surgical Ward, 1935-40; *Head Nurse on Private Surgical Ward, 1940—.*

OLLIE MAE SMITH, R.N.

Head Nurse on Obstetric and Gynecological Ward

Diploma, Marshall Lodge Memorial Hospital, Lynchburg, Va., 1930; General Duty, Duke Hospital, 1930-31; Assistant Head Nurse, Obstetric and Gynecological Ward, Duke Hospital, 1931-33; Staff Nurse, Sharon Hospital, Sharon, Conn., 1934-35; Private Nursing, Durham, N. C., 1935-36; Office Nursing, Duke Hospital, 1937-41; *Head Nurse, Obstetric and Gynecological Ward, 1941—.*

LOLA E. PAGE, R.N.

Head Nurse in Nursery

Diploma, Baptist Hospital, Winston-Salem, N. C., 1929; Postgraduate Work, Lying-In Hospital, New York, 1930; Private Duty, Raleigh, 1931-32; Assistant Head Nurse, Nursery in Duke Hospital, 1932-37; *Head Nurse in Nursery, 1937—.*

TWILA QUARLES POPE, R.N.

Head Nurse on Obstetric Ward

Diploma, North Carolina State Sanatorium, Sanatorium, N. C., 1940; General Duty, Duke Hospital, 1940-42; Assistant Head Nurse on Obstetric Ward, 1942; *Head Nurse on Obstetric Ward, 1942—.*

DOROTHY DEATON DRATZ, R.N.

Head Nurse in Delivery Room

Flora Macdonald College, Red Springs, N. C., 1931-32; Diploma, Duke University School of Nursing, 1941; General Duty, 1941-42; Assistant Head Nurse on Surgical Ward, 1942; Assistant Head Nurse on Men's Medical Ward, 1942-43; *Head Nurse in Delivery Room, 1943—.*

DOROTHY LINGLE KAMIN, R.N.

Head Nurse on Men's Surgical Ward

Diploma, Duke University School of Nursing, 1942; *Head Nurse on Men's Surgical Ward, 1943—.*

CELIA ZOE PIPKIN, R.N., B.S.

Head Nurse on Men's Surgical Ward

Florida State College for Women, Tallahassee, Fla., 1938-40; Diploma and B.S. in Nursing, Duke University School of Nursing, 1943; *Head Nurse on Men's Surgical Ward, 1943—.*

CAROL POOLE, R.N., B.S.

Head Nurse on Women's Medical Ward

Woman's College of Furman University, Greenville, S. C., 1937-39; Diploma and B.S. in Nursing, Duke University School of Nursing, 1942; Assistant Head Nurse on Women's Medical Ward, 1942-43; *Head Nurse on Women's Medical Ward, 1943—.*

SARAH McCOLLUM, R.N.

Head Nurse on Women's Surgical Ward

Diploma, Duke University School of Nursing, 1942; *Head Nurse on Women's Surgical Ward, 1942—.*

THERESA ELIZABETH HORTON, R.N., B.S.

Head Nurse on Colored Obstetric and Gynecological Ward

Catawba College, Salisbury, N. C., 1936-38; Diploma and B.S. in Nursing, Duke University School of Nursing, 1941; P.R.N. Day Duty, 1941-42; *Head Nurse on Colored Obstetric and Gynecological Ward, 1942—.*

JESSIE WALL McCOY

Head Nurse on Colored Medical and Surgical Ward

Woman's College of the University of North Carolina, Greensboro, N. C., 1938-39; Diploma, Duke University School of Nursing, 1943; *Head Nurse on Colored Medical and Surgical Ward, 1943—.*

JANICE BUNN LEWIS, R.N., B.S.

Head Nurse on Women's Surgical Ward

Campbell College, Buie's Creek, N. C., 1938-40; Diploma and B.S. in Nursing, Duke University School of Nursing, 1943; *Head Nurse on Women's Surgical Ward, 1943—.*

ELENORE LEE CUTLIP, R.N., B.S.

Head Nurse on Private Medical Ward

Marshall College, Huntington, W. Va., 1938-40; Diploma and B.S. in Nursing, Duke University School of Nursing, 1943; *Head Nurse on Private Medical Ward, 1943—.*

VERA GREEN JENNINGS, R.N.

Head Nurse on Private Surgical Ward

Diploma, Rex Hospital, 1935; Private Duty, 1935-39; General Duty, Duke Hospital, 1939-42; Assistant Head Nurse, Private Surgical Ward, 1942-43; *Head Nurse, Private Surgical Ward, 1943—.*

DOROTHY E. SMITH, R.N.

Head Nurse on Psychiatric Ward

Diploma, Bridgeport Hospital, Bridgeport, Conn., 1940; General Duty, Bridgeport Hospital, 1940-41; General Duty, Duke Hospital, 1941; Assistant Head Nurse on Men's Surgical Ward, 1943; *Head Nurse on Psychiatric Ward, 1943—.*

LOIS FRANCES DIXON, R.N.

Head Nurse on Private Medical Ward

Diploma, Thompson Memorial Hospital, Lumberton, N. C., 1938; Private Duty, Lumberton, N. C., 1939-42; General Duty, Watts Hospital, Durham, N. C., 1942-43; Assistant Head Nurse on Private Surgical Ward, 1943; *Head Nurse on Private Medical Ward, 1944—.*

ELEANORA TORRENCE, R.N.

Head Nurse on Surgical Pediatric Ward

Diploma, Knoxville General Hospital, Knoxville, Tenn., 1935; General Duty, Physicians and Surgeons Hospital, Cleveland, Tenn., 1935-36; General Duty, Duke Hospital, Durham, N. C., 1936-41; Assistant Head Nurse, Pediatric Ward, 1941-44; *Head Nurse, Surgical Pediatric Ward, 1944—.*

FACULTY MEMBERS SERVING WITH DUKE UNIT

CAPTAIN JULIA ELIZABETH WHITE, *Chief Nurse*
2D LT. NANNIE SUE CHILTON
2D LT. MARY LOUISE LINEBERGER
2D LT. LAUREEN HARRIS REARDEN

MEMBERS OF OTHER FACULTIES OF THE UNIVERSITY GIVING INSTRUCTION

Wilburt Cornell Davison, A.B., M.A., M.D.....*Pediatrics*
Susan Coons Dees, A.B., M.S., M.D.....*Pediatrics*
Angus McBryde, B.S., M.D.....*Pediatrics*
Jay Morris Arena, B.S., M.D.....*Pediatrics*
Charlotte Frisch Walker, M.D.....*Pediatrics*
Haywood Maurice Taylor, B.S., M.S., Ph.D.....*Chemistry*
Bayard Carter, A.B., B.S., M.A., M.D.....*Obstetrics and Gynecology*
Lenox Dial Baker, M.D.....*Orthopaedics*
Robert Beverly Raney, A.B., M.D.....*Orthopaedics*
Edwin Pascal Alyea, S.B., M.D.....*Urology*
William Banks Anderson, A.B., M.D.....*Ophthalmology*
Watt Weems Eagle, A.B., M.D.....*Otolaryngology*
Norman Frances Conant, B.S., A.M., Ph.D.....*Bacteriology*
Richard Sherman Lyman, B.A., M.D.....*Neuropsychiatry*
Robert James Reeves, A.B., M.D.....*Roentgenology*
Jasper Lamar Callaway, B.S., M.D.....*Dermatology and Syphilology*
Frederic Moir Hanes, A.B., A.M., M.D.....*Medical Diseases*
Christopher Johnston, A.B., M.D.....*Medical Diseases*
William McNeal Nicholson, A.B., M.D.....*Medical Diseases*
James Paisley Hendrix, B.S., M.A., M.D.....*Medical Diseases*
Edward Stewart Orgain, M.D.....*Medical Diseases*
Julian Meade Ruffin, A.B., M.A., M.D.....*Deficiency Diseases*
Elijah Eugene Menefee, Jr., B.S., M.D.....*Medical Diseases*
Oscar Carl Edvard Hansen-Prüss, A.B., M.D.....*Allergy*
Deryl Hart, A.B., A.M., M.D.....*General Surgery*
Keith Sanford Grimson, B.A., B.S., M.D.....*General Surgery*
Durward Lee Lovell, M.D.....*General Surgery*
Robert Gleve Neill, A.B., M.A., M.D.....*Neurosurgery*
Ruth W. Hay, R.N., B.S., M.A.....*Public Health Nursing*
Margaret Blee, R.N., B.S., M.A.....*Public Health Nursing*
John Saeger Bradway, A.B., A.M., LL.B.....*Legal Aspects of Nursing*
Ruth Elizabeth Barker, A.B., M.S.....*Medical Social Service*
Julia Rebecca Grout, A.B., M.S.....*Physical Education*
William Henry Hollinshead, A.B., M.S., Ph.D.....*Biology*
Helen Louise Kaiser, R.P.T.T.....*Physical Therapy*
Guy Leary Odom, M.D.....*Neurosurgery*

THE SCHOOL OF NURSING

GENERAL INFORMATION

The School of Nursing of Duke University was established in 1925 in connection with the School of Medicine of the University and Duke Hospital through the munificent gift of the late James B. Duke.

The plan of the School is to develop the ability of the nurse to make a maximum contribution to social welfare and progress, and to live an individually satisfying life, through the medium of the service which she renders to individuals, families, and communities in caring for the sick, in prevention of disease, and in conservation of health.

The government of the School is administered by the Curriculum Committee of the School of Nursing, under the general direction of the Executive Committee of the Schools of Nursing and Medicine.

FACILITIES OF THE HOSPITAL

Duke Hospital has every modern convenience for the diagnosis, proper care, welfare, and comfort of patients, both private and charity, white and colored, whether they come from Durham or from a distance. It has 604 beds, including 50 bassinets for newly born infants. *Medicine,* including dermatology and neurology, has 75 ward beds; *surgery,* including urology, otolaryngology, ophthalmology, and orthopaedics, 143 ward beds; *obstetrics,* including *gynecology,* 56, and 50 bassinets; *neuropsychiatry,* 23; and *pediatrics,* 52. There are 205 private rooms and semiprivate cubicles, 7 air-conditioned operating rooms, and 4 obstetric delivery rooms. Offices and examining rooms for the members of the Medical Faculty are located in the Hospital. The Hospital has been approved for internships and residencies by the Council on Medical Education and Hospitals of the American Medical Association.

Through the generosity of Dr. Robert S. Carroll, the Highland Hospital, Asheville, North Carolina, has been presented to the University to form a therapeutic division of the Department of Psychiatry. Dr. Carroll will continue as Director of Highland Hospital. The School of Nursing at Highland Hospital offers training for those who wish to prepare themselves for psychiatric nursing. Those interested should apply to Dr. Robert S. Carroll, Highland Hospital, Asheville, North Carolina.

FACILITIES FOR INSTRUCTION

The facilities for instruction include the undergraduate colleges and graduate schools of the University, the School of Medicine, and Duke Hospital.

LIBRARIES

The reference library of books and periodicals of special interest to students majoring in nursing is located in the Nurses' Home Libraries. An auxiliary library, which is used chiefly by freshmen, is in the New Nurses' Home. Students may use the general libraries on the East and West campuses and the Medical School Library.

RESIDENCES

Students are housed in the fireproof residences located near the Hospital. Rooms are adequately equipped with blankets and linen, making further provision by the student unnecessary.

HEALTH REGULATIONS AND PHYSICAL EDUCATION

The School has general supervision of the student's health. All physical defects, such as defective vision, dental needs, etc., must be corrected before admission to the School. The student must have been immunized against typhoid fever and vaccinated against smallpox during the current year. All students are required to pass a physical examination before admission to the School of Nursing and at intervals thereafter, a final examination being given at the end of the course. Exercises for two periods a week during the first quarter are required of all students. Students whose condition needs further observation may be admitted tentatively, but must cancel their applications if later findings prove them physically unfit for nursing. Students about whom it is decided that tonsillectomy or other surgery was indicated before admission to the School, or students under care of a private physician for some minor complaint which does not interfere with the practice of nursing but requires continued treatment, may be asked to pay for this care at the hands of the physician or surgeon of their choice.

ACTIVITIES OFFERED

Autumn Quarter (October to December): Swimming, tennis, horseback riding, and hiking.

Winter Quarter (January to March): Swimming, basketball, and horseback riding.

Spring Quarter (March to June): Tennis, swimming, and horseback riding.

ADMISSION REQUIREMENTS

Application forms may be obtained by writing to the Dean, Duke University School of Nursing, Durham, North Carolina. They must be typed, a 2 x 2½ inch recent photograph attached, and the application returned to the Dean as soon as possible. Applications are considered in the order received. If the information is satisfactory, a personal interview with the Committee or Regional Representative will be arranged for the applicant. The candidate is notified as soon as possible whether she has been accepted or declined; if accepted, the student must

send in a deposit of twenty-five dollars ($25) within two weeks to insure enrollment. This deposit is applied toward her tuition, but is not refunded if the student withdraws her application. The applicant must be within six months of her eighteenth birthday when entering the Duke School of Nursing.

The basic entrance requirements are intelligence, aptitude for nursing, and character. During the war, high-school graduates who have not had college work, including chemistry, should enroll in the special Pre-Nursing Course offered in this School, which will begin July 3, 1944. Those who successfully complete this pre-nursing course, and other students with acceptable college work will begin September 29, 1944. Tuition for the pre-nursing course is $100, and $100 per year for the nursing course. This covers the cost of instruction and maintenance.

Duke University School of Nursing participates in the U. S. Nurse Cadet Corps program. Under this plan, students who pledge themselves to continuing in nursing throughout the war, receive indoor and outdoor uniforms and a small monthly stipend. If a student enrolls on the first month of either her first, second, or third year in the School, she is eligible also for tuition without cost.

ADVANCED STANDING

As another means of meeting war needs the School offers exemption of three to six months to graduates of accredited colleges who maintain a "C" rating and show superior ability in nursing in the first two years in the School of Nursing.

REQUIREMENTS OF SCHOLARSHIP FOR PROMOTION AND GRADUATION

Students are graded in their studies, which include all classes and nursing practice, on a basis of weighted quality points with an average of two quality points required for promotion without condition and for graduation. A diploma of the School is issued upon satisfactory completion of all requirements.

The following grading system has been established:

93-100—"A"—Superior ..... 3 quality points
85-92—"B"—Above Average ..... 2 quality points
75-84—"C"—Satisfactory ..... 1 quality point
75-75—"D"—Re-exam ..... 0 quality point
Below 70—"F"—Unsatisfactory (Failure) .....–1 quality point
"I"—Incomplete, given in case of absence and not because of poor scholarship.

The scholastic standing of the student is based upon the general character of her nursing practice as well as the results of written and oral examinations, case studies, and practical tests. Reports of nursing practice are recorded regularly by the departments. Students who have an average of 90 on Theory and Practice are placed on the Dean's List.

A major warning is given to a student if her work is not of at least a satisfactory quality or "C" rating, which is required for promotion without condition.

A grade of at least "C" is required in Nursing Arts I and II. A grade of "D" in nursing practice in any major field of nursing places a student on major warning.

In case a student fails in one or not more than two subjects, she may be allowed to repeat these courses provided her record in other work is sufficiently satisfactory. A charge of $1.00 is made for each repeat examination. If it is necessary to repeat a course, a charge of $5.00 will be made; if a student should require special tutoring there will be a charge not to exceed $1.00 an hour. In order to readjust her schedule to meet such difficulties, it may be necessary to increase the length of her course.

After graduation one transcript of the School record will be granted each nurse upon request without charge. Additional copies will be sent upon payment of a fee of $1.00. Transcripts will not be issued except upon personal request of the graduate.

FEES

A yearly tuition fee of $100 is required: (a fee of $100 is charged for the Pre-Nursing course) the first year $25 upon acceptance by the School, $25 upon registration, and $50 on September 29, 1944; the second and third years, $50 twice yearly. Twenty-five dollars will be refunded to students who leave the School within one month of registration. There is no charge for room, board, laundry, and uniforms. Estimated additional expenses for the first year, including textbooks, are $30; for the second, $15; and for the third, $15. There is a room key deposit of $1.00; a publications fee of $5.00; a fee of $4.50 before admission for pre-entrance tests; $5.00 for diploma; $5.00 for degree; $5.00 Commencement Fee; a cap and gown rental fee of $1.25 payable on May 1, graduating year.

LOAN FUND AND SCHOLARSHIP

Through the generosity of the Kellogg Foundation, loan funds sufficient to cover tuition costs are available to students who demonstrate a real need, and who are qualified. There are also a limited number of tuition scholarships for exceptionally qualified students.

READMISSION

Students who are absent for more than one month on account of illness or have leave of absence may be readmitted to the same or a succeeding class at the discretion of the Committee.

VACATIONS

Each year is divided into four quarters of three months each. First-year students have vacations of two weeks at Christmas and two weeks during the summer. Senior students have vacations of two weeks; Junior students, a month.

LEAVE OF ABSENCE

Students are not expected to leave the School because of family or other personal reasons. Absence from the School is granted only in extreme cases. If a student is obliged to be away for a period exceeding four weeks, the Dean of the School of Nursing will determine the date of her return and the question of resuming her place in her original class.

THE DUKE UNIVERSITY SCHOOL OF NURSING ALUMNAE ASSOCIATION

The Duke University School of Nursing Alumnae Association was formed for the purpose of rendering mutual help and improvement in professional work, and for the promotion of good fellowship among the graduates of the School.

The Alumnae Association co-operates with the North Carolina State Nurses' Association and the American Nurses' Association in working for the professional and educational advancement of nursing.

An endowment fund has been established by the Association. Each alumna is asked to contribute $10 to this fund within two years following her graduation. Gifts from interested friends have also helped to increase the fund during the past year.

Alumnae Notes, the Association's publication, has become a quarterly bulletin.

COURSES OF INSTRUCTION

Anatomy and Physiology.—Basic facts and principles concerning the structure and activities of the human body, and their application to nursing situations in health and disease. Demonstrations, laboratory work, and discussions. Anatomy Department of Medical School.

MRS. MOSELEY, MISS BAIN

Bacteriology.—The relation of pathologic organisms to the cause, prevention, spread, and control of communicable diseases. Lectures and laboratory work. DR. CONANT, MRS. MOSELEY

Chemistry.—Emphasis on the physiological and pathological aspects of chemistry as applied to nursing. Lectures are supplemented by laboratory experiments and discussions of general, organic, and physiological chemistry.

DR. TAYLOR, MISS BAIN

Diet Therapy.—Principles underlying nutrition in health and disease.

MRS. ELSIE MARTIN

First Aid.—Presentation of the general factors essential in meeting emergency needs. RED CROSS INSTRUCTOR

Gynecology.—Presentation of the anatomy and physiology of the female reproductive organs with reference to the major diseases and abnormalities of the organs. Essential nursing care is stressed.

DR. BAYARD CARTER, ASSOCIATES, MRS. RUTH WILSON

Health Education.—This course aims to develop a high degree of physical and mental health with special emphasis on the responsibility of the nurse as an individual and a teacher. MISS DULIN

History of Nursing.—Survey of the development and trends leading up to the present concept of nursing, stressing the historical element in the profession. MISS BAIN

Medical and Surgical Nursing I and II.—An integrated study of the broad field of the clinical aspect of medical and surgical conditions, including the essential nursing care factors.

PHYSICIAN LECTURERS, MRS. HAMPTON, MISS BRYANT

Medicine and Surgery Advanced.—A survey of the modern trends in treatments and nursing care to enable the nurse to develop a broader basis for understanding and meeting the present-day needs in nursing.

CLINICAL SUPERVISORS

Nursing Arts I.—Introduction to nursing, ethics, and hospital economics.

MISS BURNHAM AND ASSISTANTS

Nursing Arts II.—Principles of elementary nursing procedures, including bandaging. MISS BURNHAM AND ASSISTANTS

Nursing Arts III.—Demonstrations and practice in the classroom and supervised experience on the wards. MISS BURNHAM AND ASSISTANTS

Nutrition and Cookery.—An introduction to the principles and methods of the preparation of foods. MRS. ELSIE MARTIN

Obstetrics.—A course dealing with the physiology of normal pregnancy, labor, and puerperium; the more common abnormalities; and the care of the newborn. Principles of obstetrical nursing care are emphasized. Lectures and demonstrations. DR. BAYARD CARTER, MRS. RUTH WILSON

Operating Room Technique.—Lectures and demonstrations stressing the physical operating room plant in its relation to preparation and sterilization of supplies and use of equipment in operative procedures.
MISS M. BATCHELDER

Pediatrics.—Emphasis on the causes, treatments, and preventive measures in childhood diseases. The importance of nursing care is stressed.
PHYSICIAN LECTURERS, MISS M. SHERWOOD

Elementary Pharmacology.—A study of the nurses' responsibilities in the understanding of the preparation and computation of dosages, and common modes of administration of drugs. MRS. MOSELEY, MISS BAIN

Pharmacology.—An introduction to drugs in relation to their use in the treatment of disease, with emphasis on the responsibility of the nurse in their administration. MRS. MOSELEY

Posture and Massage.—An introductory course outlining the theoretical and practical essentials of physiotherapy. MISS KAISER

Professional Adjustments I.—A study of the origin and growth of ethics, with emphasis on the necessity for unification of character and conduct.
MISS PINKERTON

Professional Adjustments II.—A survey of the nursing field with consideration of the special qualifications and preparation needed for the various specialties. MISS PINKERTON AND SPECIALISTS

Psychiatric Nursing.—An introduction to causes, treatments, and nursing care measures used in the care of the mentally ill. Lectures, presentation of cases, demonstrations of procedures, lantern slides.
DR. LYMAN, MRS. RIDDLEBERGER

Psychology.—Fundamental principles underlying human conduct.
MRS. RIDDLEBERGER

Introduction to Public Health Nursing.—These lectures are designed to give an overall view of the field of public health with pertinent relations to public health nursing, its development, influence, the present-day programs, and family health work. MISS R. HAY, MISS M. BLEE

Sociology of Nursing.—Sociological factors in the problems of individuals as related to the hospital and the community life from a medical-social aspect. MRS. RIDDLEBERGER, MISS BARKER

PRE-CLINICAL AND CLINICAL PROGRAMS—CLASS OF 1947

Year	First Year				Second Year				Third Year			
Term: (11 weeks)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
	Hrs.	*Hrs.*	*Hrs.*	*Hrs.*	*Hrs.*	*Hrs.*	*Hrs.*	*Hrs.*	*Hrs.*	*Hrs.*	*Hrs.*	*Hrs.*
Biological and Physical Sciences	Anatomy and Physiology 55 Chemistry 55	Anatomy and Physiology 44 Bacteriology 44										
Social Sciences	Psychology 22 Prof. Adjustments I. 11 Sociology 22		History of Nursing 22					Prof. Adjustments II. 22				
Nursing and Allied Arts	Health Education 11 Nursing Arts 66	Elem. Pharmacology 22 Nursing Arts 55 Nutrition 11 Cookery 22	Advanced Pharmacology 33 Medicine Surgery 66 Nursing Arts 44	Medicine Surgery 66 Diet Therapy 22 Physio-Therapy 11 Pathology 22	Gynecology 33 Operating Room Tech. 11 Orthopedics 11 Eye 11	Obstetrics 33 Pediatrics 33		Psychiatry 33 First Aid 22	Ward Manag. 11 Public Health 22			Total
Hrs. of Wd. Practice.	242	187	165	121	66	66		77	33			957

Clinical Experience After the First Six Months

Medical Wards	5½	months
Surgical Wards	5½	months
Diet Kitchen	1	month
Gynecological Wards	1	month
Operating Department	2	months
Out-Patient Department	1	month
Private Wards	2	months
Obstetric Department	3	months
Pediatrics Department	3	months
Milk Laboratory	¼	month
Psychiatry	1	month
Electives	1	month
Unassigned	1	month
Total	27¼	months

SCHOOL OF NURSING STUDENTS

SENIOR STUDENTS

Name and Preparation	*Home Address*
Allen, Mary Grayson *Ohio University.*	Asheville, N. C.
Baity, Martha *High Point College.*	Henderson, N. C.
Baldwin, Olive Douglas *Peace Junior College.*	Whiteville, N. C.
Barnes, Mary Frances *North Carolina State College.*	Goldsboro, N. C.
Benbow, Marjorie Long *Woman's College, University of North Carolina.*	Greensboro, N. C.
Bennett, Anne *Mitchell Junior College.*	Greensboro, N. C.
Blythe, Charlotte *Brevard College.*	Hendersonville, N. C.
Churan, Dorothy *Pennsylvania State College.*	Reading, Pa.
Cobb, Mary Bernice *Chowan Junior College.*	Windsor, N. C.
Crawley, Hattie Mildred *Mitchell College.*	Statesville, N. C.
Crowder, Janice *Duke University.*	Willis Wharf, Va.
Daffin, Margaret Louise *Florida State College.*	Pensacola, Fla.
D'Amico, Frances Loucetta *University of Georgia.*	Elberton, Ga.
Doud, Jean *Florida Southern College.*	Palmetto, Fla.
Dull, Margie *Salem College.*	Winston-Salem, N. C.
Edwards, Margaret Pearl *Winthrop College.*	Varnville, S. C.
Ezzell, Mary *Mars Hill College.*	Rose Hill, N. C.
Farrior, Ethel *Campbell College.*	Wallace, N. C.
Fleming, Jessamine *Flora Macdonald College.*	Mebane, N. C.
Green, Patricia *Duke University.*	Hillsboro, N. C.
Gunter, Edith	Anderson, S. C.
Halter, Gladys *Lenoir-Rhyne College.*	Hanover, Pa.
Harp, Dorothy L. *Madison College.*	Roanoke, Va.
Hildreth, Lucille *Duke University.*	Durham, N. C.

Name and Preparation	*Home Address*
Hinton, Anna Lee *Averett College.*	Reedville, Va.
Horton, Virginia *University of Mexico.*	Albuquerque, N. M.
House, Martha E. *Campbell College.*	Fayetteville, N. C.
Kincaid, Mary Guinn *University of West Virginia.*	Fire Creek, W. Va.
King, Virginia B. *Winthrop College.*	Lancaster, S. C.
Kresge, Caroline *Stephens Junior College;* *Ohio Wesleyan University.*	Lakewood, Ohio
Lambeth, Evelyn *Randolph-Macon College.*	Danville, Va.
Light, Catherine M. *Winthrop College.*	Alcolu, S. C.
Lucas, Mary Josephine *Redford State Teachers College.*	Simpson, Va.
McCoy, Hazel	New Hill, N. C.
McKenzie, Alma Margaret *Flora Macdonald College.*	Pinehurst, N. C.
McMullen, Fay *Florida Southern College.*	Largo, Fla.
May, Barbara *Lander College.*	Tampa, Fla.
O'Briant, Mary Frances *Duke University.*	Durham, N. C.
Osborne, Lucy	Wallace, N. C.
Pimsner, Leontine I. *Oberlin College.*	Cleveland, Ohio
Ramsey, Ruth Wean *Duke University.*	Charlotte, N. C.
Richardson, Charlotte *University of Connecticut.*	Bloomfield, N. J.
Roane, Cary *Texas State College.*	Fort Knox, Ky.
Robinson, Alice M. *Duke University.*	Sayville, L. I., N. Y.
Sawyer, Margaret J. *Woman's College, University of North Carolina.*	Greensboro, N. C.
Shearin, Mary Lina *Atlantic Christian College.*	Wilson, N. C.
Slocumb, Ruth W. *Greensboro College.*	Goldsboro, N. C.
Smith, Betty Irene *Woman's College, University of North Carolina.*	Pinehurst, N. C.
Smith, Mary Alice *Pfeiffer Junior College.*	Oakboro, N. C.
Smith, Ruth Lucille *Mars Hill College.*	Stanley, N. C.

Name and Preparation — *Home Address*

Taylor, Rebekah — Landis, N. C.
Catawba College.

Tilley, Sophy Malone — Durham, N. C.

Voss, Jewel — Walnut Cove, N. C.
Woman's College, University of North Carolina.

Warren, Mary H. — Greensboro, N. C.
Woman's College, University of North Carolina.

White, Evelyn — Newport News, Va.
Mary Washington College.

JUNIOR STUDENTS

Adams, Barbara Fay — Leland, N. C.
Winthrop College.

Banks, Katherine M. — Hickory, N. C.
Duke University.

Barbrey, Betty Jane — Mount Olive, N. C.
Pfeiffer Junior College.

Bates, Mary Elizabeth — Winston-Salem, N. C.
Woman's College, University of North Carolina.

Bennett, Virginia Rose — Weston, W. Va.
West Virginia University.

Bond, Sarah Roberts — Augusta, Ga.
Georgia State College for Women.

Boring, Dorothy Louise — Plant City, Fla.
Florida State College.

Braswell, Ruth Davis — Princeton, N. C.
Louisburg College.

Broadhurst, Jane — Goldsboro, N. C.
Woman's College, University of North Carolina.

Byrd, Frances Levenia — Leaksville, N. C.
Averett College.

Byrd, Mary Jane — Candler, N. C.
Brevard College.

Caviness, Edith Ann — Lillington, N. C.
Peace College.

Chalker, Mary C. — West Palm Beach, Fla.
Florida State College for Women.

Colley, Myrle — Wilmington, N. C.
Louisburg College.

Cothran, Jane — Inman, S. C.
Winthrop College.

Covington, Martha Lee — Mebane, N. C.
Mitchell College.

Davis, Martha Jane — Andrews, N. C.
Mars Hill College.

Davis, Pauline — Nashville, N. C.
Madison College.

Davis, Ruth — Clinton, S. C.
Presbyterian College.

Davis, Virginia Helen — Uniontown, Pa.
West Virginia University.

Name and Preparation	*Home Address*
Denny, Janice *Biltmore College.*	Asheville, N. C.
Durner, Hazel Ruth *Duke University.*	Waterbury, Conn.
Fisher, Mary Alice *University of Georgia.*	Clayton, Ga.
Freeman, M. Trudell *Pfeiffer College.*	Ether, N. C.
Galloway, Suzayne *Florida State College for Women.*	Coral Gables, Fla.
Givin, Nelle Brown *University of Alabama.*	Charleston, W. Va.
Gossett, Mary Frances *Winthrop College.*	Stephen, S. C.
Gray, Virginia *Duke University.*	Oyster Bay, N. Y.
Hanna, Mary Chapman *Winthrop College.*	Blacksburg, S. C.
Harlow, Gene Anne *Florida State College for Women.*	Jacksonville, Fla.
Hawes, Ruth Mae *Florida State College for Women.*	Tallahassee, Fla.
Hege, Margaret Elizabeth *Duke University.*	Winston-Salem, N. C.
Hickman, Miriam Poe *Winthrop College.*	Loris, S. C.
Kaiser, Edith *Newberry College.*	Lexington, S. C.
Kime, Selena *Lenoir-Rhyne College.*	Liberty, N. C.
Kirby, Mary Katherine *Asheville College.*	Newry, S. C.
Knowles, Lois Nina *Florida State College for Women.*	Valrico, Fla.
Lawrence, Elizabeth *Duke University.*	Swedesboro, N. J.
Laws, Cicily Anne *Mars Hill College.*	Brantwood, Md.
McElroy, Barbara Anne *Grove City College.*	Latrobe, Pa.
McIntyre, Jean C. *Limestone College.*	Marion, S. C.
Mitchell, Paula Mozelle *University of Alabama.*	Cullman, Ala.
Morrow, Nancy Anne *William and Mary College.*	Shaker Heights, Ohio
Nash, Doris *Temple University.*	Troy, Pa.
Nix, Jean D. *Winthrop College.*	Garnett, S. C.
Reflogal, Jacquelyn *Mary Washington College.*	Clearwater, Fla.

Name and Preparation	*Home Address*
Rhoad, Betty Claire *Winthrop College.*	Moncks Corner, S. C.
Riddle, Betty Louise *Elon College.*	Graham, N. C.
Robeson, Jeanne *Flora Macdonald College.*	Tarheel, N. C.
Robinette, Helen M. *Campbell College.*	Winston-Salem, N. C.
Robinson, Mary Jean *Ohio University.*	Clarksburg, W. Va.
Rowland, Alice Bird *University of Pennsylvania.*	Johnstown, Pa.
Sawyer, Mary Harriet *Woman's College, University of North Carolina.*	Charlotte, N. C.
Smith, Adella May *Woman's College, University of North Carolina.*	Clinton, N. C.
Smith, Annie Ruth *Winthrop College.*	Albemarle, N. C.
Smith, Emily June *State Teachers College.*	Odd, Va.
Solomon, Hazel *Woman's College, University of North Carolina.*	Charlotte, N. C.
Stewart, Katherine *Campbell College.*	Lillington, N. C.
Stiglitz, Adelaide *Madison College.*	Plainfield, N. J.
Styron, Frances *Woman's College, University of North Carolina.*	Goldsboro, N. C.
Taylor, Virginia Louise *St. Mary's School.*	Boone, N. C.
Tierney, Helen *University of Miami.*	Coral Gables, Fla.
Vannah, Mary *University of Tennessee.*	Brevard, N. C.
Vaughan, Louise *Peace College.*	Rich Square, N. C.
Wahmann, Nancy *Duke University.*	Moultrie, Ga.
Warren, Joyce Elizabeth *East Carolina Teachers College.*	Clinton, N. C.
Watkins, Martha Elizabeth *Lenoir-Rhyne College.*	Valdese, N. C.
White, Betty Evelyn *Elon College.*	Bynum, N. C.
Willcox, Mary Moore *Winthrop College.*	Marion, S. C.
Williams, Caroline *Peace College.*	Inez, N. C.
Wylie, Ruth Laura *West Virginia University.*	Alloy, W. Va.
Yoak, Betty Jo *Marshall College.*	Ceredo, W. Va.

FRESHMAN STUDENTS

Name and Preparation — *Home Address*

Alley, Mary Lee — Greensboro, N. C.
Montreat College;
Woman's College, University of North Carolina.

Baker, Alfreda — Carthage, N. C.
Elon College.

Bason, Betty Greene — Graham, N. C.
Brevard Junior College.

Brevoort, Esther Ruth — Hampton, Va.
Mary Washington College;
Duke University.

Cannady, Edythe Ethel — Panama City, Fla.
Abraham Baldwin College;
Georgia State Woman's College.

Carver, Clara — Canton, N. C.
Western Carolina Teachers College.

Conrad, Phoebe Elizabeth — New York, N. Y.
Edinboro State Teachers College.

Cooke, Edith Celestia — Durham, N. C.
Duke University.

Curry, Johnsie Stowe — Kannapolis, N. C.
Woman's College, University of North Carolina;
High Point College.

DeLong, Sara Louise — Reading, Pa.
Catawba College.

Dermid, Emma Olive — Hendersonville, N. C.
Woman's College, University of North Carolina.

Dettmar, Frances Aileen — Kings Mountain, N. C.
Brevard College.

Ensign, Carol Joy — Gainesville, Fla.
University of Florida;
Florida State College for Women.

Glen, Cecilia W. — Edisto Island, S. C.
Duke University.

Grant, Margaret Turner — Mocksville, N. C.
Catawba College;
Peace Junior College.

Jones, May Craigge — Boca Grande, Fla.
Georgetown College.

King, Martha Grey — Louisburg, N. C.
Eastern Carolina Teachers College.

Leach, Martha — Hamlet, N. C.
Georgia State College for Women.

Lepper, Mary Ellen — Hastings-on-Hudson, N. Y.
Duke University.

Lineberry, Nancy Eleanor — Raleigh, N. C.
Peace Junior College.

Luna, Patricia Ardelia — McMinnville, Tenn.
Berea College.

Miller, Margaret — Aberdeen, N. C.
Woman's College, University of North Carolina;
Queen's College.

Miller, Mary Sue — Lakeland, Fla.
Florida Southern College.

Name and Preparation — *Home Address*

O'Rear, Jean Fray — Evansville, Ind.
Kansas City Junior College.

Owens, Faith — Charlotte, N. C.
Winthrop College.

Ransom, Audrey Mae — Longmeadow, Mass.
Mary Washington College.

Reynolds, Elizabeth Hines — Rockingham, N. C.
Woman's College, University of North Carolina.

Sharp, Louise Wortham — Reidsville, N. C.
Woman's College, University of North Carolina.

Smith, Lucy Fay — Kernersville, N. C.
Salem College.

Sykes, Alice Marie — Clintwood, Va.
Radford State Teachers College.

Talley, Patricia Ann — Greenville, S. C.
Furman University.

Taylor, Helen E. — Miami, Fla.
Florida State College for Women.

Thorpe, Annie Louise — Hardeeville, S. C.
Winthrop College.

Trawick, Betty Jean — Sparta, Ga.
Shorter College.

Whitfield, Mae Joyce — Durham, N. C.
Duke University.

Williard, Ruth Boaz — High Point, N. C.
Woman's College, University of North Carolina.

Wirt, Julia B. — Camp Hill, Pa.
Catawba College.

PRE-CLINICAL STUDENTS

Alexander, Henry Quincy — Pineville, N. C.
Mitchell College.

Allen, Sue — Knightdale, N. C.
Brevard Junior College.

Althauser, Ben Eva — Fort Lauderdale, Fla.
Pre-Nursing Course, Duke University.

Anderson, Florence C. — Sumter, S. C.
Furman University; University of South Carolina;
Pre-Nursing Course, Duke University.

Armbrister, Elizabeth A. — Bluefield, W. Va.
Pre-Nursing Course, Duke University.

Batchelor, Lucy — Nashville, N. C.
Lees McRae College;
Pre-Nursing Course, Duke University.

Battle, Betty Ann — Charlotte, N. C.
Pre-Nursing Course, Duke University.

Beasley, Eleanor — Louisburg, N. C.
Louisburg College; Brevard College.

Berry, Jean Mills — Durham, N. C.
Pre-Nursing Course, Duke University.

Blackwell, Isabel — Marion, S. C.
Limestone College.

Name and Preparation — *Home Address*

Bowden, Mary Ellen ..... Fitzgerald, Ga.
Mercer University; Pre-Nursing Course, Duke University.

Bowen, Mildred Norton ..... Durham, N. C.
Pre-Nursing Course, Duke University.

Brewer, Sarah L. ..... Pittsboro, N. C.
Mars Hill College; Pre-Nursing Course, Duke University.

Brisson, Mittie Jean ..... Lumberton, N. C.
Mars Hill Junior College;
Pre-Nursing Course, Duke University.

Brown, Kathleen Craft ..... Atlantic Beach, Fla.
Pre-Nursing Course, Duke University.

Caldwell, Reva Fern ..... Washington, D. C.
N. E. Missouri State Teachers College;
Pre-Nursing Course, Duke University.

Campell, Barbara Ann ..... Gainesville, Fla.
Pre-Nursing Course, Duke University.

Champion, Elizabeth L. ..... Kannapolis, N. C.
Pre-Nursing Course, Duke University.

Chandler, Dorothy E. ..... Daytona Beach, Fla.
Converse College; Pre-Nursing Course, Duke University.

Clegg, Elizabeth ..... Durham, N. C.
Duke University.

Coiner, Bonnie Jean ..... Waynesboro, Va.
Fairfax Hall Junior College.

Coulson, Florence E. ..... Arlington, Va.
Holton-Arms Junior College;
Pre-Nursing Course, Duke University.

Dempster, Emily A. ..... Bethesda, Md.
University of California;
Pre-Nursing Course, Duke University

Dennis, Lee Dorothy ..... Ann Arbor, Mich.
Pre-Nursing Course, Duke University.

Eddy, Kathryn Evelyn ..... Charleston, S. C.
Winthrop College.

Edens, Doris A. ..... Rowland, N. C.
Appalachian State Teachers College;
Pre-Nursing Course, Duke University.

Ferguson, Jean ..... Riverside, Ill.
Queen's College; Pre-Nursing Course, Duke University.

Fleming, Ilah ..... Gainesville, Fla.
University of Florida;
Florida State College for Women.

Foushee, Doris Jane ..... Burlington, N. C.
Meredith College; Greensboro College.

Gammell, Ellen Jane ..... South Arlington, Va.
Pre-Nursing Course, Duke University.

Garrett, Emily L. ..... Lancaster, S. C.
Winthrop College; Pre-Nursing Course, Duke University.

Gibson, Patricia Ann ..... Hampton, Va.
Farmville State Teachers College.

Giles, Dorothy Nell ..... Huntsville, Ala.
Pre-Nursing Course, Duke University.

Goff, Mary Jean ..... Fort Benning, Ga.
La Crosse State Teachers College.

Name and Preparation — *Home Address*

Goforth, Ellen — Rutherfordton, N. C.
Mars Hill College.

Haigh, Joanne — Daytona Beach, Fla.
Florida State College for Women;
Pre-Nursing Course, Duke University.

Harris, Margaret Ray — Durham, N. C.
Pre-Nursing Course, Duke University.

Harrison, Betty Jo — Georgetown, Ky.
Georgetown College.

Herbert, Nancy Susan — Charleston, S. C.
Winthrop College.

Hornsby, Viola M. — Jackson, Tenn.
Pre-Nursing Course, Duke University.

Humphrey, Ellen Lanier — Lilesville, N. C.
Lees McRae College.

Johnson, Betsy Ross — Clayton, N. C.
Pre-Nursing Course, Duke University.

Johnson, Betty Louise — Plant City, Fla.
Pre-Nursing Course, Duke University.

Johnson, Irene E. — Smithfield, N. C.
Campbell College; Meredith College;
Pre-Nursing Course, Duke University.

Johnson, Joyce Faye — Fayetteville, N. C.
Pre-Nursing Course, Duke University.

King, Margaret A. — Pleasant Garden, N. C.
Pfeiffer Junior College;
Pre-Nursing Course, Duke University.

Lane, Jacqueline A. — Flat Rock, N. C.
Barnard College; Pre-Nursing Course, Duke University.

Logan, Georgia Bryan — Chapel Hill, N. C.
University of North Carolina.

Lott, Virginia E. — Aiken, S. C.
Winthrop College.

Lovette, Virginia — Wilkesboro, N. C.
Pre-Nursing Course, Duke University.

Lucas, Maude Lee — Hillsboro, N. C.
University of North Carolina;
Pre-Nursing Course, Duke University.

McDonald, Kathryn Mae — Coral Gables, Fla.
Pre-Nursing Course, Duke University.

MacDonald, Margaret Joy — Wilson, N. C.
Pre-Nursing Course, Duke University.

McGowan, Betty Kathleen — Morgantown, W. Va.
Pre-Nursing Course, Duke University.

McKeever, Shirley Ann — Washington, D. C.
Pre-Nursing Course, Duke University.

McLendon, Anna Madge — Greenville, S. C.
Furman University.

Majette, Helen Jones — Franklin, Va.
Mary Washington College;
Pre-Nursing Course, Duke University.

Mallard, Madeline O. — Pollocksville, N. C.
East Carolina Teachers College;
Pre-Nursing Course, Duke University.

Name and Preparation — *Home Address*

Marston, Peggy Lee — Edinburg, Va.
Madison College.

Michie, Jacqueline A. — Durham, N. C.
Pre-Nursing Course, Duke University.

Moore, Ida Inez — Norfolk, Va.
William and Mary College;
Pre-Nursing Course, Duke University.

Morgan, Evelyn Davis — Salisbury, N. C.
Catawba College.

Nicholson, Dorothy J. — Converse, S. C.
Winthrop College;
Pre-Nursing Course, Duke University.

Nickles, Sarah Cason — Abbeville, S. C.
Lander College; Pre-Nursing Course, Duke University.

Otken, Mary Frances — Greenwood, Miss.
Pre-Nursing Course, Duke University.

Peterson, Barbara Elizabeth — Ann Arbor, Mich.
Pre-Nursing Course, Duke University.

Pierucci, Dolores — Wilmington, N. C.
Pre-Nursing Course, Duke University.

Pike, Rubilee — Columbia, S. C.
University of South Carolina;
Pre-Nursing Course, Duke University.

Pratt, Betty Jane — Asheville, N. C.
Biltmore College; Pre-Nursing Course, Duke University.

Pritchett, Sarah Scott — Olanta, S. C.
Winthrop College.

Reeves, Sara T. — Louisville, Ky.
University of Cincinnati;
Pre-Nursing Course, Duke University.

Roller, Jean — Roanoke, Va.
State Teachers College;
Pre-Nursing Course, Duke University.

Rouse, Mildred Kathern — Danville, Va.
Mary Washington College.

Routledge, Sarah Elizabeth — Rome, Ga.
Alabama Polytechnic Institute;
Pre-Nursing Course, Duke University.

Rudisill, Bertha — Roxbury, Va.
Pre-Nursing Course, Duke University.

Sally, Jennie Augusta — Durham, N. C.
Duke University; Pre-Nursing Course, Duke University.

Schriver, Anne Loretta — Point Pleasant, W. Va.
Sacred Heart Ursuline College.

Seay, Margaret — Waldo, Fla.
Florida State College for Women.

Short, Zelda Marie — Bluefield, W. Va.
Bluefield College; Pre-Nursing Course, Duke University.

Smith, Betty Jacqueline — Rocky Mount, N. C.
Pre-Nursing Course, Duke University.

Smith, Edith E. — Louisville, Ky.
Franklin College of Indiana;
Pre-Nursing Course, Duke University.

Smith, Margaret Louise — Fremont, N. C.
Pre-Nursing Course, Duke University.

Smith, Sara Janet — Raleigh, N. C.
Pre-Nursing Course, Duke University.

Name and Preparation — *Home Address*

Snyder, Cora Crawford.....Shepherdstown, W. Va.
Duke University; Pre-Nursing Course, Duke University.

Strother, Wincey Irene.....High Point, N. C.
High Point College.

Swartz, Betty Jane.....York, Pa.
York Junior College.

Talley, Rebecca Jane.....Fuquay Springs, N. C.
Mars Hill College; Pre-Nursing Course, Duke University.

Taylor, Jane Louise.....Fuquay Springs, N. C.
Appalachian State Teachers College; Pre-Nursing Course, Duke University.

Thomas, Wilma Anne.....York, S. C.
Appalachian State Teachers College.

Thomasson, Katie Lee.....Durham, N. C.
Pre-Nursing Course, Duke University.

Tinsley, Mary Alice.....Brevard, N. C.
Brevard College.

Veazey, Vivian Claire.....Shelby, N. C.
Lees McRae College.

Walker, Mary Clair.....Winston-Salem, N. C.
Woman's College of the University of North Carolina; Pre-Nursing Course, Duke University.

Warner, Regina Frost.....High Point, N. C.
Meredith College; High Point College; Pre-Nursing Course, Duke University.

Welsh, Sarah Ruth.....Lumberton, N. C.
Pre-Nursing Course, Duke University.

Westman, Dorothy.....Buffalo, N. Y.
Pre-Nursing Course, Duke University.

Williams, Mary Elizabeth.....New Bern, N. C.
Woman's College, University of North Carolina.

Windham, Faye Cary.....Durham, N. C.
Pre-Nursing Course, Duke University.

GEOGRAPHICAL DISTRIBUTION OF STUDENTS

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Connecticut	1
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Michigan	2
Mississippi	1
New Jersey	3
New Mexico	1
New York	5
North Carolina	128
Ohio	3
Pennsylvania	9
South Carolina	30
Tennessee	2
Virginia	19
West Virginia	11
Total	262

SCHOOL OF NURSING GRADUATES

Name *Address*

Adams, Dorothy Ellen (Mrs. Ed. Rogers).....Augusta, Ga.
Diploma, 1939; B.S., 1939.

Adams, Katie (Mrs. G. B. Hodge).....Nursing Arts, Duke Hospital
Diploma, 1943; B.S., 1943.

Adams, Maude (Mrs. Percy White).....Lynnhaven, Va.
Diploma, 1938; B.S., 1939.

Alexander, Ruth Brinkley (Mrs. David Wilson)
Diploma, 1939; B.S., 1940. Obstetrical Supervisor, Duke Hospital

Allan, Margaret
Diploma, 1940.

Alley, Charlotte (Mrs. Stuart Steele)
Industrial Nurse, 706 Hooper Drive, War Apts., Wilmington, N. C.
Diploma, 1942.

Allred, Mary Jane.....U. N. C. Naval Hospital, Unit 3, Shoe Maker, Calif.
Diploma, 1942; B.S., 1942.

Applewhite, Ida Shaw (Mrs. Wm. Barber)
Diploma, 1939; B.S., 1939. 1822 E. Fourth St., Charlotte, N. C.

Arnold, Aldine
Public Health Nurse, 13515 Lake Shore Blvd., Cleveland, Ohio
Diploma, 1933.

Atkinson, Pauline (Mrs. J. A. Martin)
Diploma, 1937. First Assistant to the Dean, Duke Hospital

Atzrodt, Rebecca (Mrs. Warner Wells).....2703 Legion St., Durham, N. C.
Diploma, 1939; B.S., 1939.

Ayers, Mary Elizabeth (Mrs. Paul McKee).....Cambrice, Va.
Diploma, 1943; B.S., 1943.

Babb, Frances (Mrs. J. Russell Andrews).....Box 1182, Pamplin, Va.
Diploma, 1941; B.S., 1941.

Bagby, Virginia.....A. N. C., Station Hospital, Langley Field, Va.
Diploma, 1940; B.S., 1940.

Bain, Barbara.....Assistant Science Instructor, Duke Hospital
Diploma, 1943; B.S., 1943.

Barbee, Sula (Mrs. George Parks).....1104 Ninth St., Durham, N. C.
Diploma, 1938; B.S., 1940.

Barickman, Martha.....215 Montrou Drive, South Charleston, W. Va.
Diploma, 1943; B.S., 1943.

Barton, Ruth (Mrs. Ed. Habbersett)....35 South Adams St., Petersburg, Va.
Diploma, 1939; B.S., 1939.

Beaton, Frances (Mrs. Gilbert A. Larson)
Diploma, 1943; B.S., 1943. 1818 Hastings Ave., E. Cleveland, Ohio

Bell, Joyce.....611 Ridge Ave., Sharpsville, Pa.
Diploma, 1937.

Berry, Anne (Mrs. G. F. Bieber).....5124 Greenwood Ave., Chicago, Ill.
Diploma, 1938.

Bigler, Ouida Louise.....A. N. C., England
Diploma, 1941; B.S., 1941.

Bisanar, Lelia Elizabeth (Mrs. Adolphe L. Julienne)
Diploma, 1939. 606 Palmetto Ave., Spartanburg, S. C.

Black, Frances (Mrs. Walter Hastings).....Pickens, S. C.
Diploma, 1937.

Name *Address*

Blakely, Margie Dean (Mrs. William Thompson)
Diploma, 1939. 89 E. Market St., Rhinebeck, N. Y.

Boone, Evelyn (Mrs. William Brumbeck).....203 E. 18th St., Rolla, Mo.
Diploma, 1940.

Boone, Nellie (Mrs. Robert Coon)
Diploma, 1936.

Bowles, Josephine (Mrs. Richard Paddison)...Lavendar Ave., Durham, N. C.
Diploma, 1943.

Boykin, Elizabeth.....Bluefield, W. Va.
Diploma, 1943.

Bradshaw, Julia (Mrs. Leonard Suitt)
Diploma, 1934. Supervisor of Nursing Service in Dispensary, Duke Hospital

Brake, Thelma (Mrs. F. W. Zibkowski).....Rocky Mount, N. C.
Diploma, 1940.

Brewer, Lottie Mae (Mrs. Clarence Sapp).....Health Dept., Concord, N. C.
Diploma, 1939; B.S., 1939.

Brinkley, Gladys (Mrs. J. F. Stuckey).....1911 Sunset Drive, Raleigh, N. C.
Diploma, 1933.

Brooks, Ida Florence (Mrs. George Bokinsky)
Diploma, 1937. R. F. D. No. 3, Box 24, Greensboro, N. C.

Bruffey, Jean (Mrs. John E. Pipes).....1250 S. S. 6th St., Miami, Fla.
Diploma, 1940.

Bryant, Carl Denyse (Mrs. Robert Stanley)
Diploma, 1940. 209 McPherson Lane, Greenville, S. C.

Bryant, Edith Virginia.....Medical Supervisor, Duke Hospital
Diploma, 1941; B.S., 1941.

Bryant, Hazel (Mrs. C. C. Wallace).....315 W. 15th St., Lumberton, N. C.
Diploma, 1937.

Bunch, Mary Elizabeth.....A. N. C., 65th General Hospital
Diploma, 1941; B.S., 1941.

Bunn, Esper Nan.....A. N. C., 65th General Hospital
Diploma, 1942; B.S., 1942.

Cadle, Evelyn (Mrs. Robert D. Capen).....1733 Starnes St., Augusta, Ga.
Diploma, 1936.

Caldwell, Faire (Mrs. C. N. Franklin).....Route 2, Matthews, N. C.
Diploma, 1934.

Camp, Delores (Mrs. J. L. Atkins).....1407 Dollar Ave., Durham, N. C.
Diploma, 1935.

Carson, Bonnie (Mrs. Joe Jester).....Box 430, Route No. 1, Fresno, Calif.
Diploma, 1934.

Carter, Mary Irvine (Mrs. C. H. Gay).....500 Queen Road, Charlotte, N. C.
Diploma, 1935.

Castleberry, Margaret (Mrs. F. Malone)
Diploma, 1939.

Cates, Ona Maude (Mrs. John Street)
Diploma, 1936. 2 Prospect Ave., c/o N. N. Walkin, Darien, Conn.

Chittendon, Eleanor (Mrs. E. E. Menefee)....2102 Sprunt St., Durham, N. C.
Diploma, 1935.

Clapp, Elizabeth
Diploma, 1935. B.S., 1937.

Name *Address*

Clay, Isa Telford.....P. O. Box 761, Staunton, Va.
Diploma, 1940.

Cobb, Zula (Mrs. Donald C. Meekham)...620 Ray Drive, Silver Springs, Md.
Diploma, 1934; B.S. 1940.

Coggins, La Una (Mrs. Ira Ross).....20 Worcester Sq., Boston, Mass.
Diploma, 1943; B.S., 1943.

Collins, Hallie Jo (Mrs. Jerry Jerome).....736 Catalonia, Coral Gables, Fla.
Diploma, 1941; B.S., 1941.

Combs, Thelma Jean (Mrs. W. Swanson).....A. N. C., 65th General Hospital
Diploma, 1942.

Cook, Betty Wood (Mrs. J. Braner).....Palmira, N. Y.
Diploma, 1942.

Cook, Clara Bert (Mrs. Henry Bartlett)
Diploma, 1942. Nursing Office Assistant, Duke Hospital

Cooke, Maude.....Naval Nurses' Reserve Corps
Diploma, 1938.

Corbett, Mary Elizabeth (Mrs. R. W. Postlewaite)
Diploma, 1936. Station Hospital, Fort Myer, Va.

Cothran, Mary Lillie (Mrs. William Gregory).....Box 133, Inman, S. C.
Diploma, 1939; B.S., 1939.

Cotter, Ethel (Mrs. George Silver).....161 Neal St., Portland, Me.
Diploma, 1933.

Covington, Mildred (Mrs. Robert Baeder).....Orange, N. J.
Diploma, 1943.

Cowan, Frances (Mrs. Linwood Driver)....Psychiatric Clinic, Duke Hospital
Diploma, 1942; B.S., 1942.

Craddock, Alice.....Delivery Room, Duke Hospital
Diploma, 1943; B.S., 1943.

Cranford, Kathryn (Mrs. James Raper)..133 W. First Ave., Lexington, N. C.
Diploma, 1934.

Crowell, Alucia (Mrs. Wyatt McDaniel).....Taylors, S. C.
Diploma, 1939; B.S., 1939.

Crutchfield, Ruth (Mrs. W. P. Fields)..149 New York Ave., Brooklyn, N. Y.
Diploma, 1935.

Currence, Martha.....Instructor, Grace Hospital, Morganton, N. C.
Diploma, 1938; B.S., 1941.

Curtis, Catherine.....A. N. C., 65th General Hospital
Diploma, 1942.

Cutlip, Elenore Lee.....Head Nurse, Duke Hospital
Diploma, 1943; B.S., 1943.

Darrough, Sara.....Emory University Hospital, Atlanta, Ga.
Diploma, 1941; B.S., 1941.

Davey, Margaret.....Veterans Facility, Fayetteville, N. C.
Diploma, 1935.

Deaton, Dorothy (Mrs. Henry Dratz).....Head Nurse, Duke Hospital
Diploma, 1941.

Decker, Edna (Mrs. James Wrenn).....Bellevue Hospital, N. Y.
Diploma, 1938; B.S., 1938.

Dobbin, Louise.....A. N. C., 65th General Hospital
Diploma, 1934.

Dugger, Carlotta (Mrs. Frank Mann).....McRae, Ga.
Diploma, 1941.

Name *Address*

Dulin, Margaret (Mrs. T. E. Jackson) ..... Pueblo, Colo.
Diploma, 1941.

Dunn, Dorothy ..... 919 Lockland Ave., Winston-Salem, N. C.
Diploma, 1938; B.S., 1938.

Eagles, Kathleen ..... A. N. C., 65th General Hospital
Diploma, 1938; B.S., 1938.

Ellison, Ethel ..... N. N. C., Charleston, S. C.
Diploma, 1942.

Estes, Frances (Mrs. Robert Regan) ..... 726 Napier Ave., Macon, Ga.
Diploma, 1942.

Estes, Jeane (Mrs. Jack Scott) ..... Fort Belvoir, Va.
Diploma, 1942.

Evans, Elizabeth ..... A. N. C., 65th General Hospital
Diploma, 1933.

Farquhar, Mary ..... Public Health, Chapel Hill, N. C.
Diploma, 1943.

Farrar, Mary Frances ..... Assistant Night Supervisor, Duke Hospital
Diploma, 1943.

Feagans, Hilda (Mrs. Fred Larson) ..... Veterans Facility, Roanoke, Va.
Diploma, 1935.

Forrest, Margaret (Mrs. Ross Porter) ..... Hillsboro, N. C.
Diploma, 1935.

Fox, Irene C. ..... General Duty, 428 W. 59th St., New York, N. Y.
Diploma, 1943.

Fox, June (Mrs. Harold Schiro) ..... Maine
Diploma, 1935.

Gaines, Dorothy ..... Charlotte, N. C.
Diploma, 1943.

Gambill, Ruth (Mrs. Ben Miller) ..... 861 Abelia Rd., Columbia, S. C.
Diploma, 1936.

Gandy, Virginia ..... Society Hill, S. C.
Diploma, 1940.

Gangle, Elsie (Mrs. Elliott Foster) ..... Worcester, Mass.
Diploma, 1939.

Garris, Grace ..... A. N. C., 65th General Hospital
Diploma, 1942.

Gibson, Jean (Mrs. Landress) ..... St. Petersburg, Fla.
Diploma, 1938.

Gilliam, Hazel (Mrs. William Karmony)
Diploma, 1937. c/o Mrs. S. O. Jones, Lynwood Blvd., Nashville, Tenn.

Gladstone, Annie Laura (Mrs. C. S. Tilley)
Diploma, 1937. 2017 Pershing St., Durham, N. C.

Goodman, Eunice ..... Public Health, Raleigh, N. C.
Diploma, 1934.

Gordon, Nellie (Mrs. H. G. Hess)
Diploma, 1939. 1910 El Arbolita Drive, Glendale 8, Calif.

Green, Mary (Mrs. Dave Lester) .. 1202 Medico Dental Bldg., San Diego, Calif.
Diploma, 1938.

Green, Mary Elizabeth (Mrs. Phillip Dewees) ..... Asheville, N. C.
Diploma, 1943; B.S., 1943.

Greenlee, Helen ..... Spruce Pines, N. C.
Diploma, 1943; B.S., 1943.

Name *Address*

Gum, Margaret....A. N. C., Florence, S. C.
Diploma, 1942.

Gurley, Louise (Mrs. W. W. Sutton)
Diploma, 1934. 208 N. 20th St., Morehead City, N. C.

Hall, Myra....A. N. C., N723734, Station Hospital,
Diploma, 1938; B.S., 1938. Station Complement, Camp Kilmer, N. J.

Hampton, Julia....Missionary Work, Belgian Congo, Africa
Diploma, 1937.

Harrison, Ethel....A. N. C.
Diploma, 1943; B.S., 1943.

Hartley, Dare (Mrs. James Filipsoki)....A. N. C., 65th General Hospital
Diploma, 1941; B.S., 1941.

Hartley, Jean....N. N. C.
Diploma, 1943; B.S., 1943.

Harvin, Anne....A. N. C., 65th General Hospital
Diploma, 1942; B.S., 1942.

Hawfield, Annie Jo....Public Health, Durham, N. C.
Diploma, 1933.

Herman, Margaret (Mrs. Buford Guy)....Statesville, N. C.
Diploma, 1934; B.S., 1938.

High, Christine (Mrs. Bernard Huddy)....O. P. C., Duke Hospital
Diploma, 1933.

Hines, Margaret....Public Health, Covington, Va.
Diploma, 1934; B.S., 1934.

Hinshawe, Esther....A. N. C., Africa
Diploma, 1940; B.S., 1940.

Hodges, Charlotte (Mrs. Dan Jones)....2805 Kilgore St., Raleigh, N. C.
Diploma, 1937; B.S., 1938.

Holleman, Matilda (Mrs. Vince Moseley)...Science Instructor, Duke Hospital
Diploma, 1934; B.S. 1936.

Holley, Mildred (Mrs. K. D. Weeks)....Clinic Nurse, Duke Hospital
Diploma, 1934; B.S. 1936.

Hollowell, Maude....Head Nurse, Veterans' Facility, Fayetteville, N. C.
Diploma, 1935; B.S., 1939.

Horton, Theresa....Head Nurse, Duke Hospital
Diploma, 1941; B.S., 1941.

Humphrey, Frankie (Mrs. J. H. Rainey)....Walterboro, S. C.
Diploma, 1935; B.S., 1937.

Hunter, Frances (Mrs. H. D. Castilow)....248 Highland Ave., Passaic, N. J.
Diploma, 1936.

Jarrett, Sara....699 Haywood Road, W. Asheville, N. C.
Diploma, 1938; B.S., 1938.

Johnson, Gretchen (Mrs. Clyde Cheek).....1911 Yearby Ave., Durham, N. C.
Diploma, 1934.

Johnson, Josephine....A. N. C., 65th General Hospital
Diploma, 1935; B.S., 1938.

Jones, Helen....A. N. C., 65th General Hospital
Diploma, 1942.

Jones, Nancy....A. N. C., 65th General Hospital
Diploma, 1940; B.S., 1940.

Kale, Ella Mae....A. N. C., 65th General Hospital
Diploma, 1941.

Name *Address*

Keesee, Ellen (Mrs. William Craver).....Night Supervisor, Duke Hospital
Diploma, 1943.

King, Mary Emily (Mrs. Robert Bailey).....Public Health, Lenoir, N. C.
Diploma, 1936.

Kirkland, Sara (Mrs. Robert Malony).....A. N. C., 65th General Hospital
Diploma, 1942.

Klein, Frances (Mrs. Alfred Henderson).....Durham, N. C.
Diploma, 1934.

Krebs, Gladys.....A. N. C., 65th General Hospital
Diploma, 1942.

Kuykendal, Margaret.....Matthews, N. C.
Diploma, 1934, B.S., 1938.

Leatherman, Alice.....N. N. C., Charleston, S. C.
Diploma, 1942.

Leatherwood, Elizabeth.....A. N. C., 65th General Hospital
Diploma, 1942; B.S., 1942.

Ledford, Rubye (Mrs. T. Howell Mees)....126th Gen. B., Camp Hoan, Calif.
Diploma, 1941; B.S., 1941.

Lewis, Janice.....Head Nurse, Duke Hospital
Diploma, 1943; B.S., 1943.

Ligon, Martha (Mrs. Hill Grimmett).....Nursing Arts, Duke Hospital
Diploma, 1942; B.S., 1942.

Lineberger, Mary Lou.....A. N. C., 65th General Hospital
Diploma, 1937.

Lingle, Dorothy (Mrs. Henry Kamin).....Head Nurse, Duke Hospital
Diploma, 1942.

Lopp, Lucille.....Public Health, Raleigh, N. C.
Diploma, 1937; B.S., 1938.

Lyon, Frances (Mrs. Jack Coggins).....R. F. D., Winston-Salem, N. C.
Diploma, 1943; B.S., 1943.

McAdams, Marie (Mrs. Albert Parrish).....Clinic Nurse, Duke Hospital
Diploma, 1937.

McBane, Gladys (Mrs. J. S. Denholm)..Station Hospital, Fort Devens, Mass.
Diploma, 1934.

McCain, Mary Alice (Mrs. Frank Bordoff)..2917 Bratton St., Columbia, S. C.
Diploma, 1936.

McCollum, Sarah.....Head Nurse, Duke Hospital
Diploma, 1942.

McCorkle, Jean.....A. N. C., Camp Stewart, Ga.
Diploma, 1942; B.S., 1942.

McCrainie, Aline (Mrs. Frank Harris)
Diploma, 1941. Apt. 15, 491 Seminole Ave., Atlanta, Ga.

McDavid, Virginia.....Public Health, Bennettsville, S. C.
Diploma, 1937; B.S., 1938.

McLaughlin, Louise (Mrs. Tom Beard).....Aycock Apt., Durham, N. C.
Diploma, 1935; B.S., 1939.

Makely, Antoinette (Mrs. Sneed High).....717 Burch Ave., Durham, N. C.
Diploma, 1940; B.S., 1940.

Mallory, Margaret.....South Charleston, S. C.
Diploma, 1941.

Mann, Elizabeth.....Veterans' Facility, Kecoughton, Va.
Diploma, 1933.

Name *Address*

Marr, Leta Mae (Mrs. Robert Downing).....37 Starer St., Kennebunk, Me.
Diploma, 1937; B.S., 1937.

Martin, Edrie (Mrs. Sam Page).....Miami, Fla.
Diploma, 1941; B.S., 1941.

Massenburg, Sue (Mrs. Starr)
Diploma, 1935; B.S., 1940. Christ's Church, 9th & Broad Sts., Nashville, Tenn.

Matheson, Deane (Mrs. Barringer).....Raeford, N. C.
Diploma, 1941; B.S., 1941.

Maxwell, Winfred (Mrs. Everette Sawyer).....Clarksville, W. Va.
Diploma, 1939; B.S., 1939.

Meeks, Marian.....Nurses' Army Air Force, Greensboro, N. C.
Diploma, 1943; B.S., 1943.

Melton, Iris.....Nurses' Army Air Force, Greensboro, N. C.
Diploma, 1943; B.S., 1943.

Miller, Eleanor.....Veterans' Hospital, Bronx, N. Y.
Diploma, 1934.

Miller, Frances.....Public Health, Chapel Hill, N. C.
Diploma, 1943; B.S., 1943.

Miller, Margaret Carolyn (Mrs. William Logan)
Diploma, 1939. Naval Base, Jacksonville, Fla.

Milton, Margaret (Mrs. H. W. Gates).....Duke Hospital
Diploma, 1941.

Misenheimer, Rachel (Mrs. H. P. Morgan)
Diploma, 1942. 1481 Washington St., San Francisco, Calif.

Moore, Elizabeth.....General Hospital, Greenville, S. C.
Diploma, 1934; B.S., 1938.

Moore, Louise.....A. N. C., St. Petersburg, Fla.
Diploma, 1942; B.S., 1942.

Moore, Margaret Carolyn (Mrs. Roderick Jones).....Burnsville, N. C.
Diploma, 1942; B.S., 1942.

Moore, Mary Alice.....Nursing Arts, Duke Hospital
Diploma, 1942; B.S., 1942.

Morrison, Polly (Mrs. Frank Sellars).....Charlotte, N. C.
Diploma, 1940.

Mortimer, Anne (Mrs. Jerry Lombardi)
Diploma, 1942. 624 Oakland Ave., Spartanburg, S. C.

Newman, Ruby (Mrs. S. A. Butler).....Sioux City, Iowa
Diploma, 1943; B.S., 1943.

Norton, Ann (Mrs. Robert Chambers).....Prince Street, Durham, N. C.
Diploma, 1933.

Olsen, Lurline (Mrs. George M. Gaston).....1110 Elm Street, Durham, N. C.
Diploma, 1938.

O'Neal, Christine.....A. N. C., 65th General Hospital
Diploma, 1941.

Painter, Isabelle
Diploma, 1940; B.S., 1940.

Parker, Esther.....A. N. C., 65th General Hospital
Diploma, 1940; B.S., 1940.

Parker, Ida (Mrs. L. B. Council).....Oakville, Tenn.
Diploma, 1935.

Name *Address*

Parker, Mary Virginia.....Homeville, Va.
Diploma, 1943.

Parks, Virda (Mrs. Jim Marshall)
Diploma, 1936. 933 S. Hawthorne Road, Winston-Salem N. C.

Parrish, Marcella (Mrs. Bryan Harper)....845 27th St., Newport News, Va.
Diploma, 1939.

Paynter, Marcella.....A. N. C., 65th General Hospital
Diploma, 1940.

Peele, Margaret.....N. N. C.
Diploma, 1937; B.S., 1937.

Pegram, Annie Lee.....Baptist Hospital, Birmingham, Ala.
Diploma, 1938; B.S., 1941.

Peppler, Dorothy.....School of Anaesthesia, Duke Hospital
Diploma, 1943.

Perry, Mary (Mrs. Fred Fisher, Jr.).....52 Pitts, Charleston 10, S. C.
Diploma, 1939; B.S., 1939.

Pickett, Margaret (Mrs. Basil M. Elder)
Diploma, 1939; B.S., 1939. 2905 Marshall Ave., Newport News, Va.

Pipkin, Celia Zoe.....Head Nurse, Duke Hospital
Diploma, 1943; B.S., 1943.

Poindexter, Kathaleen.....Emergency Hospital, Washington, D. C.
Diploma, 1942; B.S., 1942.

Poole, Carol.....Head Nurse, Duke Hospital
Diploma, 1942; B.S., 1942.

Pope, Virginia (Mrs. James Gilliam)..Johns Hopkins Hospital, Baltimore, Md.
Diploma, 1938; B.S., 1938.

Quattlebaum, Louise.....1110 Princeton Circle, Columbia, S. C.
Diploma, 1943; B.S., 1943.

Rabb, Iris (Mrs. John Baughman).....Moreland, Ky.
Diploma, 1939; B.S., 1940.

Ray, Dorothy.....A. N. C., 65th General Hospital
Diploma, 1940.

Rearden, Laureen (Mrs. Harry Steelman)....A. N. C., 65th General Hospital
Diploma, 1939; B.S., 1940.

Reinhardt, Cynthia.....Operating Room, Duke Hospital
Diploma, 1941; B.S., 1941.

Reinhardt, Elizabeth.....Nurses' Army Air Force, Greensboro, N. C.
Diploma, 1943; B.S., 1943.

Richards, Eugenia (Mrs. Samuel Lambeth, III)..Rawls Hotel, Enterprise, Ala.
Diploma, 1939; B.S., 1939.

Rose, Ernestine.....Operating Room, Duke Hospital
Diploma, 1943; B.S., 1943.

Rutledge, Fannie (Mrs. Robert Pooley).....Memorial Hospital, Danville, Va.
Diploma, 1942; B.S., 1942.

Sanford, Marion (Mrs. William Sealey).....Vance Apts., Durham, N. C.
Diploma, 1939.

Santos, Elvin.....Catholic University, Washington, D. C.
Diploma, 1943.

Seawell, Margaret (Mrs. C. W. Brian).....1205 S. Sante Fe, Salina, Kan.
Diploma, 1939.

Sewell, Genevieve.....Seffner, Fla.
Diploma, 1943.

Name *Address*

Sharp, Annie Hill (Mrs. Fred Klenner).....Reidsville, N. C.
Diploma, 1934; B.S., 1937.

Sheddy, Maxine (Mrs. Jack Bennett)
Diploma, 1935.

Sheldon, Dorothy.....A. N. C., Station Hospital, Camp Davis, N. C.
Diploma, 1942; B.S., 1942.

Shields, Lois (Mrs. Jack Cannon)
7209 F. Burwood Drive, Lucas Hunt Village, St. Louis, Mo.
Diploma, 1939; B.S.; 1939.

Slade, Lucy.....A. N. C., Station Hospital, Camp Davis, N. C.
Diploma, 1942; B.S., 1942.

Smith, Hilda.....A. N. C., Station Hospital, Camp Butner, N. C.
Diploma, 1938; B.S., 1941.

Smith, Jean P. (Mrs. David Rulon).....Operating Room, Duke Hospital
Diploma, 1943; B.S., 1943.

Smythe, Florrie (Mrs. Charles Mercer).....Swansboro, N. C.
Diploma, 1942; B.S., 1942.

Sowers, Lucy Jo (Mrs. William Ernst).....75 Cann St., Walterboro, S. C.
Diploma, 1941.

Steigleman, Betty.....Assistant Nursing Arts Instructor, Duke Hospital
Diploma, 1942.

Stone, June.....Nursing Office Assistant, Duke Hospital
Diploma, 1942.

Strother, Sarah (Mrs. Evan Cecil)....109 Oakwood Court, High Point, N. C.
Diploma, 1936.

Sugg, Norma (Mrs. William Horner, Jr.).....Winston-Salem, N. C.
Diploma, 1934.

Thomas, Vera (Mrs. David McCulloch)..Assistant to the Dean, Duke Hospital
Diploma, 1935.

Thomson, Elizabeth (Mrs. George Pope).....Duke Hospital
Diploma, 1936.

Thrower, Emma (Mrs. Vincent Doolittle).....Rockingham, N. C.
Diploma, 1933.

Tilett, Grace (Mrs. John Wiggins).....Duke Hospital
Diploma, 1933; B.S., 1938.

Umbel, Waneta
Diploma, 1938; B.S., 1938.

Wade, Sara.....A. N. C., 65th General Hospital
Diploma, 1941.

Wagner, Josephine
Diploma, 1940.

Wall, Jessie (Mrs. L. M. McCoy).....Head Nurse, Duke Hospital
Diploma, 1943; B.S., 1943.

Ward, Jessie (Mrs. L. C. Roberts).....2028 Sunset Ave., Durham, N. C.
Diploma, 1933; B.S., 1938.

Ware, Frances.....Public Health, Leaksville, N. C.
Diploma, 1934; B.S., 1939.

Warren, Susan.....A. N. C., 65th General Hospital
Diploma, 1941.

Weaver, Martha.....Weaverville, N. C.
Diploma, 1940.

Name *Address*

Weeks, Charlotte (Mrs. Hinkle)
Diploma, 1940; B.S., 1940.

Wehunt, Rosabelle (Mrs. Z. T. Hampton)
Diploma, 1936. Surgical Supervisor, Duke Hospital

Weintz, Edith (Mrs. Frank Poole)
Diploma, 1942; B.S., 1942. Maryland General Hospital, Baltimore, Md.

Wells, Lila (Mrs. Paul Massengill).....Health Office, Duke Hospital
Diploma 1943; B.S., 1943.

Whipple, Isabelle.....A. N. C., Station Hospital, Camp Stewart, Ga.
Diploma, 1942.

White, Mary Jane (Mrs. R. S. Raulston).....801 Austin St., Houston, Tex.
Diploma, 1943; B.S., 1943.

Whitener, Marion (Mrs. Steve Bartlett)
Diploma, 1941; B.S., 1941. Massachusetts General Hospital, Boston, Mass.

Whitesides, Kathleen.....Blacksburg, S. C.
Diploma, 1943; B.S., 1943.

Whitley, Maurine (Mrs. George Udhe).....Reading, Pa.
Diploma, 1934.

Wilkinson, Dorothy.....Private Duty, Durham, N. C.
Diploma, 1936.

Wilkinson, Elizabeth (Mrs. Everette Tompkins)
Diploma, 1940; B.S., 1940. 333 Main St., West Concord, Mass.

Williams, Mary.....A. N. C., 65th General Hospital
Diploma, 1936.

Wilson, Helen (Mrs. A. S. Matthews)
Diploma, 1933. 406 Blandwood Ave., Greensboro, N. C.

Wilson, Sarah (Mrs. William Eckbert).....Southern Pines, N. C.
Diploma, 1938.

Wirt, Emma.....A. N. C., 65th General Mospital
Diploma, 1942; B.S., 1942.

Wooten, Julia.....Duke Hospital
Diploma, 1937.

Wright, Marybelle.....Norfolk Naval Hospital, Portsmouth, Va.
Diploma, 1943; B.S., 1943.

Wright, Ruby.....Science Instructor, Lewis-Gale Hospital, Roanoke, Va.
Diploma, 1943; B.S., 1943.

Wynn, Wilda (Mrs. Jack Cooper)
Diploma, 1942; B.S., 1942.

Yarbrough, Pearl.....A. N. C., 4458th SCU, Camp Rucker, Ala.
Diploma, 1933.

Yates, Virginia (Mrs. C. W. Camalier)
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Young, Helen.....Navy Nurses' Corps
Diploma, 1941.

Yount, Kathryn (Mrs. Don Wirick).....1205 S. Eighth St., Lawton, Okla.
Diploma, 1943.

Zirkle, Margaret (Mrs. W. J. Luck).....110 W. 34th St., Richmond, Va.
Diploma, 1936.

GEOGRAPHICAL DISTRIBUTION OF GRADUATES

Africa	2
Alabama	3
Army Nurse Corps	2
California	5
Colorado	1
Connecticut	1
District of Columbia	3
Florida	8
Georgia	10
Illinois	1
Iowa	1
Kansas	1
Kentucky	1
Maine	3
Maryland	3
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Navy Nurse Corps	4
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DUKE UNIVERSITY

The School of Law

(In Association with the Law School of Wake Forest College)

SPECIAL ANNOUNCEMENT
SPRING, SUMMER AND FALL SEMESTERS, 1944,
SPRING SEMESTER, 1945

PUBLISHED BY THE UNIVERSITY
DURHAM, NORTH CAROLINA

FACULTY—WARTIME PROGRAM

ROBERT LEE FLOWERS, A.M., LL.D., *President of the University*

H. CLAUDE HORACK, Ph.B., LL.B., LL.D., *Dean and Professor of Law (Duke University)*

Ph.B. 1899, LL.B. 1900, State University of Iowa; LL.B. 1904, Harvard University; LL.D. 1937, Tulane University; LL.D. 1939, Wake Forest College; Assistant Professor of Law, University of Wisconsin, 1904-07; Professor of Law, State University of Iowa, 1907-30; University of Michigan, summer 1922; University of Wisconsin, summer 1924; University of Southern California, summer 1931; Stanford University, summer 1936; Adviser, Council of Legal Education and Admissions to the Bar of the American Bar Association, 1927-30, member of Council, since 1940; Secretary, Association of American Law Schools, 1926-28, President, 1929; Professor of Law, Duke University, 1930-34; Dean and Professor of Law, since 1934.

DALE F. STANSBURY, B.S., LL.B., J.S.D., *Dean and Professor of Law (Wake Forest College)*

B.S. 1914, Valparaiso University; LL.B. 1917, Indiana University; J.S.D. 1929, Yale University; Sterling Research Fellow, Yale University, 1928-29; Deputy Attorney General of Indiana, 1918-24, 1928; in private practice, 1925-27; Professor of Law, Mercer University, 1929-35; Dean and Professor of Law, Wake Forest College, since 1935.

BRYAN BOLICH, A.B., B.A. (Juris.), M.A., B.C.L., *Professor of Law*

A.B. 1917, Duke University; Duke University Law School, 1919-21; B.A. (Juris.) 1923, B.C.L. 1924, M.A. 1927, Oxford University; general practice, 1924-27; Professor of Law, Duke University, since 1927.

JOHN S. BRADWAY, A.B., A.M., LL.B., *Professor of Law and Director of the Legal Aid Clinic*

A.B. 1911, A.M. 1915, Haverford College; LL.B. 1914, University of Pennsylvania; general practice, 1914-29; Legal Aid Society of Philadelphia, 1914-20; chief counsel, Philadelphia Legal Aid Bureau, 1920-22; Secretary, National Association of Legal Aid Organizations, 1923-40, President, 1940-42; Visiting Professor of Law and Director of the Legal Aid Clinic, University of Southern California, summer 1928; Professor of Law and Director of the Legal Aid Clinic, University of Southern California, 1929-31; Professor of Law and Director of the Legal Aid Clinic, Duke University, since 1931.

THADDEUS DILLIARD BRYSON, LL.D., *Professor of Law*

Emory and Henry College, 1889-90; University of North Carolina, 1891-95; LL.D. 1938, Emory and Henry College; general practice, 1895-1918; Solicitor, 20th Judicial District, North Carolina, 1908-16; Judge, Superior Court, North Carolina, 1918-26; general practice, 1926-27; Professor of Law, Duke University, since 1927.

ELVIN R. LATTY, B.S., J.D., J.Sc.D., *Professor of Law*

B.S. 1923, Bowdoin College; J.D. 1930, University of Michigan; J.Sc.D. 1936, Columbia University; Instructor in Romance Languages, University of Vermont, 1923-27; general practice, 1930-33; Special Fellow, Columbia University, 1933-34; Associate Professor of Law, University of Kansas, 1934-35; Professor of Law, University of Missouri, 1935-37; George Washington University, summer 1937; Stanford University, summer 1938; University of North Carolina, summer 1942; Special Assistant to the American Ambassador, Caracas, 1942-43; Acting Assistant Chief, Foreign Funds Control Division, Department of State, 1943; Professor of Law, Duke University, since 1937.

CHARLES L. B. LOWNDES, A.B., LL.B., S.J.D., *Professor of Law*

A.B. 1923, Georgetown University; LL.B. 1926, S.J.D. 1931, Harvard University; general practice, 1926-27; Assistant Professor of Law, Georgetown University, 1927-28; Professor of Law, Georgetown University, 1928-30; Research Fellow, Harvard Law School, 1930-31; Professor of Law, Georgetown University, 1931-34; Professor of Law, Duke University, since 1934.

MALCOLM McDERMOTT, A.B., LL.B., *Professor of Law*

A.B. 1910, Princeton University; LL.B. 1913, Harvard University; general practice, 1913-30; Dean, College of Law, University of Tennessee, 1920-30; University of Southern California, summer 1929; Professor of Law, Duke University, since 1930.

EDWIN CONSTANT BRYSON, LL.B., *Lecturer on Legal Bibliography*
CHARLES HENDERSON MILLER, A.B., LL.B., *Lecturer on Legal Bibliography*
DAVID OSWELL WALTER, A.B., A.M., Ph.D., J.D., *Lecturer on Labor Law*

ANNOUNCEMENT FOR SPRING, SUMMER AND FALL SEMESTERS, 1944, AND SPRING SEMESTER, 1945

The Duke Law School, in association with the Law School of Wake Forest College, will continue its Wartime Program which was started in the summer of 1942. Under the plan of joint operation, the two schools will remain entirely separate except that students will meet in joint classes, all of which will be held in the Law Building at the Duke Law School.

Under the Wartime Program, three semesters of law study are given each calendar year, so that the normal full law course of six semesters required for the degree of Bachelor of Laws may be completed in two calendar years. Either beginning or advanced students may enter any semester as the work is so arranged that all subjects will be completed in the semester in which they are offered. Students who so desire, may spread their work over three years by omitting one semester in any one calendar year.

The School reserves the right to make such changes in the program herein described as circumstances may require.

ADMISSION REQUIREMENTS

During the emergency, students with superior grades will be admitted who have completed a minimum of two years of college work at an approved college.

Courses are open to students of any year transferring from schools that are members of the Association of American Law Schools or approved by the American Bar Association.

Applications for admission should be accompanied by a transcript of all previous college or law school work.

TUITION AND FEES

During the joint operation of the two law schools, a uniform charge of $125.00 per semester will be made which will include tuition and fees. A graduation fee of $10.00 is payable by all students to whom a degree is awarded.

DORMITORIES AND THE LAW CABINS

Furnished double rooms in the Law Cabins may be secured at $40.00 per person for each semester. It is expected that a few double rooms will be available in the Graduate Dormitory at $62.50 per person for each semester. Women students may secure rooms on the Woman's College Campus, known as the East Campus, at the same rate per person.

Since the number of rooms available on the campus is extremely limited because of various military units located at Duke University, reservation at the earliest possible time is strongly advised.

Applications for dormitory rooms should not be made until after students have been accepted for admission to the Law School. For dormitory rooms on the Woman's College Campus, address Mr. W. A. Tyree, Director in the Business Division, Woman's College Campus, Durham, North Carolina. For rooms in the Graduate Dormitory or the Law Cabins, address Mr. W. E. Whitford, Director in the Business Division, Duke Station, Durham, North Carolina. A deposit of $25.00 should accompany each application.

THE FIRST-YEAR PROGRAM

Spring Semester—1944
Fall Semester—1944

Subject	*Hours*
Agency	2
Contracts	6
Family Law	2
Possessory Estates	2
Legal Bibliography	1

Summer Semester—1944
Spring Semester—1945

Subject	*Hours*
Criminal Law	3
Introduction to Procedure	3
Personal Property	2
Torts	5
Legal Bibliography	1

THE SECOND- AND THIRD-YEAR PROGRAM

Spring Semester—1944

Subject	*Hours*
Conflict of Laws	3
Constitutional Law	5
Equity II	3
Future Interests	3
Legal Aid Clinic II	2
Municipal Corporations	2
Negotiable Instruments	3
Practice	4
Seminar in Federal Taxation	2
Individual Study and Research	2

Summer Semester—1944

Subject	*Hours*
Business Associations II	3
Credit Transactions	4
Equity I	3
Family Law Seminar	2
Labor Law	2
Legal Aid Clinic I	3
Pleading	3
Sales	2
Individual Study and Research	2

Fall Semester—1944

Subject	*Hours*
Administrative Law	3
Debtors' Estates	3
Equity II	3
Legal Aid Clinic II	2
Legislation	2
Practice	4
Taxation	4
Trusts	3
Individual Study and Research	2

Spring Semester—1945

Subject	*Hours*
Business Associations I	4
Conveyancing	3
Evidence	4
Seminar in Federal Taxation	2
Legal Aid Clinic I	3
Legal Ethics	1
North Carolina Statutes	2
Pleading	3
Wills	3
Individual Study and Research	2

CALENDAR

(From January 24, 1944 to May 12, 1945)

Spring Semester begins	January 24, 1944
Spring Semester ends	May 13, 1944
Summer Semester begins	May 29, 1944
Summer Semester ends	September 9, 1944
Fall Semester begins	September 25, 1944
Fall Semester ends	January 20, 1945
Spring Semester begins	January 22, 1945
Spring Semester ends	May 12, 1945

Further information will be sent upon request. Please address

DUKE UNIVERSITY SCHOOL OF LAW
DURHAM, NORTH CAROLINA

VOLUME 16 March, 1944 NUMBER 3

BULLETIN OF DUKE UNIVERSITY

The Summer Session

1944

First Term: June 20-July 31
Second Term: August 1-September 9

(Special Announcement of Courses Offered
May 30-June 19)

PUBLISHED BY THE UNIVERSITY
DURHAM, NORTH CAROLINA

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For General Bulletin of Duke University, apply to *The Secretary,* Duke University, Durham, N. C.

For Bulletin of Undergraduate Instruction, apply to *The Secretary,* Duke University, Durham, N. C.

For Bulletin of The College of Engineering, apply to *The Secretary,* Duke University, Durham, N. C.

For Bulletin of The Graduate School of Arts and Sciences, apply to *The Dean of the Graduate School,* Duke University, Durham, N. C.

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BULLETIN

OF

DUKE UNIVERSITY

SUMMER SESSION ANNOUNCEMENT

1944

First Term: June 20-July 31
Second Term: August 1-September 9

(Special Announcement of Courses Offered
May 30-June 19)

DURHAM, NORTH CAROLINA
1944

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President of Duke University

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Myers, Hiram Earl; A.B., Duke; S.T.B., S.T.M., Boston University School of Theology; Religion (Duke University).

Outler, Albert Cook; A.B., Wofford College; B.D., Emory University; Ph.D., Yale; Religion (Duke University).

Patton, Lewis; A.B., Furman University; Ph.D., Yale; English (Duke University).

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Petry, Ray C.; A.B., Manchester College; A.M., Ph.D., University of Chicago; Religion (Duke University).

Poteat, Mary; A.B., Woman's College of the University of North Carolina; A.M., Columbia; Ph.D., Duke; English (Duke University).

Proctor, Arthur Marcus; A.B., Duke; A.M., Ph.D., Columbia; Education (Duke University).

Rankin, Robert Stanley; A.B., Tusculum College; A.M., Ph.D., Princeton; Political Science (Duke University).

Rankin, William Walter; B.E., North Carolina State College of Agriculture and Engineering; A.M., University of North Carolina; Harvard, 1914-15; Columbia, 1919-21; Mathematics (Duke University).

RICHARDS, CLAUD HENRY; A.B., Texas Christian University; A.M., Duke; Duke, 1942-44; POLITICAL SCIENCE (Duke University).

SCATES, DOUGLAS EDGAR; A.B., Whitworth College; Ph.D., University of Chicago; EDUCATION (Duke University).

SMITH, ROBERT SIDNEY; A.B., A.M., Amherst College; Ph.D., Duke; ECONOMICS (Duke University).

SPENGLER, JOSEPH JOHN; A.B., A.M., Ph.D., Ohio State University; ECONOMICS (Duke University).

SYDNOR, CHARLES SACKETT; A.B., Hampden-Sydney College; Ph.D., Johns Hopkins; HISTORY (Duke University).

THOMPSON, EDGAR TRISTRAM; A.B., University of South Carolina; A.M., University of Missouri; Ph.D., University of Chicago; SOCIOLOGY (Duke University).

VAN ALSTYNE, DOROTHY; A.B., Vassar; A.M., Ph.D., Columbia; EDUCATION (Duke University).

VOLLMER, CLEMENT; A.B., Heidelberg College; A.M., Ph.D., University of Pennsylvania; GERMAN (Duke University).

WALLIN, JOHN EDWARD WALLACE; A.B., Augustana College; A.M., Ph.D., Yale; EDUCATIONAL PSYCHOLOGY (Director of Special Education and Mental Hygiene, Delaware State Department of Public Instruction).

WEEKS, MARGARET SIGMON; B.S., A.M., Woman's College of the University of North Carolina; HYGIENE AND PHYSICAL EDUCATION (Duke University).

WEST, ALFRED THURBER; B.S., Alabama Polytechnic Institute; A.M., University of Alabama; Teacher's Certificate from American Academy of Dramatic Art; ENGLISH (Duke University).

WOODY, ROBERT HILLIARD; Ph.B., Emory University; A.M., Ph.D., Duke; HISTORY (Duke University).

ZENER, KARL EDWARD; Ph.B., University of Chicago; A.M., Ph.D., Harvard; National Research Fellow in Psychology, University of Berlin, 1926-27; PSYCHOLOGY (Duke University).

DUKE UNIVERSITY SUMMER SESSION

Duke University, located at Durham, North Carolina, includes Trinity College, the Woman's College, the College of Engineering, the Graduate School of Arts and Sciences, the Divinity School, and the Schools of Law, Medicine, Nursing, and Forestry, and the Department of Education. The student body is drawn from the entire United States, with a representative group of foreign students. The enrollment in the summer is somewhat smaller than during the regular year, but with a larger representation of graduate students.

In 1943 there was a total registration of 1,703 in the Duke University Summer Session. Of these registrations, 853 students were enrolled in the first term of the Summer Session, and 307 the second term; 525 were enrolled in the Medical School and School of Nursing; and 18 were enrolled in the Law School. There were 272 graduate students the first term and 157 the second, admitted on the basis of Bachelor's degrees from 143 different colleges and universities. The total enrollment for the summer was drawn from thirty-four states, as well as the District of Columbia, Hawaii, Brazil, Canal Zone, Cuba, Mexico, and Puerto Rico. The largest enrollments were from North Carolina, Pennsylvania, Virginia, West Virginia, Florida, New Jersey, New York, Georgia, Ohio, South Carolina, Tennessee, Maryland, Kentucky, District of Columbia, Texas, and Mississippi in the order named. Public school teachers from twenty states and the District of Columbia were included in the total.

CAMPUS AND BUILDINGS

Duke University is located on two campuses connected by prompt and inexpensive bus service. For the Summer Session of 1944, practically all classes will be held on the East Campus, on which will be housed both graduate and undergraduate students, men and women. This campus is well located with regard to the business section of the city of Durham and has all dormitories, laboratories, classroom buildings, library, auditorium, and administration building conveniently grouped together with the Union, center of student activities, the Government Post Office, and the University Store.

SCOPE AND PLAN OF WORK: CREDITS

Work is offered with the needs of the following classes of students in mind:

1. Candidates for the Master of Arts (A.M.) and Master of Education (M.Ed.) degrees, particularly teachers, supervisors, and administrators in the public schools who desire to complete degree requirements in a series of summers.

2. College undergraduates—men and women—seeking to hasten completion of Bachelor's degrees. (Special care is taken in advising students who are trying to complete degree requirements within three years by using their time in the summer. This matter has become particularly important in view of the national emergency.)

3. High-school graduates who wish to begin their work in May or June, instead of waiting until the following September.

Instead of the traditional one-hour courses for six weeks that compel the student to divide his time among three separate classes, the work of the Summer Session is divided into units of three semester hours, each class meeting for eighty-five minutes daily, five days per week for a period of six weeks. No student is permitted to obtain credit for more than two such courses, and no instructor teaches more than two. This means that instructor and student alike are limited to two preparations daily instead of three. The Summer Session also encourages students to take both their courses in one department. Undergraduates particularly are encouraged to take complete units of work within six weeks—that is, six semester hours of freshman English, or of second-year Spanish, or of United States History, or of beginning Accounting, etc. Elementary science courses are so organized that by taking a heavy laboratory schedule, students may obtain credit for eight semester hours within seven weeks. There is no exception to the rule that the University allows no credit for six weeks beyond six semester hours.

Professional credits towards teachers' certificates are granted by the various state boards of education, each in accordance with its own carefully planned rules. Teachers should consult the rules laid down by their State Board of Education before enrolling for certification credit. Any student, however, whose work is of such quality as to deny him credit toward a degree, fails to receive "professional" credit.

College credits are offered as follows: A course meeting one hour daily for six weeks counts for two semester hours of credit, and a course meeting eighty-five minutes daily for six weeks counts for three semester hours of credit. The University will not accept credit beyond six semester hours earned in one term toward the Bachelor's degree. Graduate students are not under any circumstances permitted to enroll for more than six semester hours in a summer term of six weeks. They forfeit graduate credit by undertaking more than six semester hours of work, even though part of the work may carry undergraduate credit only.

The nature of the credit allowed for each course is indicated by the number of the course. Courses numbered 1-49 are primarily for Freshmen, or Freshmen and Sophomores; courses numbered 50-99 are ordinarily for Sophomores, or Sophomores and Juniors; courses numbered 100-199 are for Juniors and Seniors; courses numbered from 200-299 are for Seniors and graduates; and courses numbered from 300 up are for graduate students only and are of very limited enrollment. Courses numbered from 200 up are usually limited in enrollment to approximately

twenty-five students, and during the summer consist almost entirely of graduate students. Graduate seminars are limited to fifteen students or fewer.

COURSES FOR ENTERING FRESHMEN AND FOR UNDERGRADUATES DESIRING TO ACCELERATE THEIR PROGRAM

Freshmen, that is graduates of standard high schools who desire to begin their college work before the fall semester, may enter summer classes and complete within six weeks a full year's work in the subject taken. The "School of Spanish Studies" offers exceptional opportunity, for such of these students as desire work in Spanish. General Zoology is also offered for beginning students, whether premedical or simply students desiring to complete their year of required science for the Bachelor of Arts degree. Since in connection with the Navy College program the University begins a regular semester July 1, men desiring to enter college should write Mr. Charles E. Jordan, Secretary of the University, as to the regular college program instead of trying to enroll in the Summer Session.

Undergraduate students of the Woman's College and of Trinity College, Duke University, not in the armed services, as well as undergraduates of other colleges desiring summer school courses, will find work both first and second terms of the Summer Session, entirely apart from the Navy College program of the University. This is especially important to those students who lack only six or twelve semester hours of completing their degree work. In order to get the courses they prefer, such students should apply promptly.

ADMISSION

Applicants for admission to the Summer Session must meet the same requirements as if they applied in any other part of the University year. Undergraduate men desiring to enter Duke should have transcripts of their courses sent to H. J. Herring, Dean of Trinity College, and undergraduate women should have transcripts sent to Mrs. Elizabeth A. Persons, Secretary of Admissions to the Woman's College, at least two weeks before the opening of the term for which they wish to enroll, if they wish to be sure of classification before registration day. Until definite acceptance and classification by the Dean's Office they are not regularly enrolled students. Undergraduate students of other colleges should write the Director of Summer Session for a special blank to be signed by the dean of their college certifying approval of the course for which they apply.

If a student wishes to enroll for graduate courses, he should request the proper official at each of the universities or colleges which he has attended to send directly to the Dean of the Graduate School, Duke University, official transcripts of his undergraduate record and of any graduate credits which he may have. A student who has attended more than

one college should note that certification by one institution of work completed at another institution cannot be accepted. In no case will a transcript presented by the candidate himself be accepted as a basis for admission, nor will a transcript mailed by an institution be returned to the student. The graduate student should also fill out Graduate School application blanks, which may be obtained from the Graduate School of Arts and Sciences. Transcripts and applications must be furnished the Dean of the Graduate School two weeks before the beginning of the term for which the student wishes to enroll if he is to receive classification before registration day. Students whose credentials are not filed in time to be evaluated before registration day may be admitted provisionally to classes for which they indicate preparation, with the understanding that no credit will be allowed until admission requirements have been met. All such provisional registrations should be cleared within ten days of entrance.

The Summer Session reserves the right to reject any application or cancel any registration without assignment of reason.

CALENDAR AND REGISTRATION

The first term of Summer Session will open June 20* and close July 31. The second term will open August 1 and close September 9. Students who desire a summer "quarter" of eleven weeks to complete one third of a regular year's work—for example, one third of the work required for a Master's degree—can complete such work in the period from June 20 to September 2. All Mondays except June 26, July 10, and August 21 are holidays. July 4 will be observed as Independence Day.

For the first term, June 20 is registration day. Any students who have not previously registered by mail should be present at 9:00 A.M. and 2:00 P.M. to submit their credentials for admission, select courses, and make arrangements concerning board and lodging. Students arriving after 5:00 P.M. Tuesday will register the next morning at 8:30. Regular classes will begin Wednesday morning at 8:00. Students will find schedule posted on the bulletin board prior to registration.

For the second term, Monday, July 31, 2:00 to 5:00 P.M. is registration day. By special schedule for that day certain classes will meet that afternoon.

All graduate students seeking credit to be applied toward an advanced degree at Duke University or elsewhere not only must file applications and transcripts with the Graduate School of Arts and Sciences but they are required to register in the Graduate School at the beginning of each term of their residence at Duke University. *This registration is in addition to the registration in the Summer Session Office.* When reporting for registration in the Graduate School, students should bring with them course cards endorsed by the Director of Graduate Studies in their

* Because of the special schedule worked out by reason of the national emergency, certain undergraduate classes and a few graduate courses for teachers and principals will begin slightly earlier. See "Courses of Instruction," page 27, this announcement.

Students who register late are regarded as absent from all classes held prior to their registration. Late entrance seriously affects credits.

major department. Anyone registering in the Graduate School after the close of the Summer Session registration period will be charged a late registration fee of five dollars.

FLEXIBILITY OF CALENDAR

It will be observed that the Summer Session of the University offers the students considerable flexibility as to the time of registration and the length of residence obtainable. For example, although most first-term classes will begin Wednesday, June 21, it is possible for students who register in advance to enter classes as late as Monday, June 26, since each student is allowed four permissible absences. A student, however, cannot obtain full credit for the term's work with more than four absences. Furthermore, since many graduate students find it exceedingly hard to complete twelve weeks work in one summer term, students are permitted to register for only eleven weeks and take advantage of early examinations closing September 2. This means that the student who can attend the first term of the Summer Session and continues for five weeks of the last term, completes a full "summer quarter," or exactly one third of the year now required for a Master's degree. Finally, students who wish to complete nine weeks of work instead of six or twelve may in some cases be able to do so by planning their work for the first term so as to find a related course offered the first three weeks of the second term, or by entering a course July 10 that is completed within the last three weeks of the first term and closely related to some course continuing through the second term. There are in 1944 few courses offered for three weeks that permit this arrangement, but it is possible in most departments to enter a research seminar for as much as three weeks additional work.

CERTAIN CLASSES BEGINNING BEFORE REGISTRATION DATE

Since the 1943-44 session of the University closes May 27, there is a demand on the part of Duke undergraduate students for certain classes to be given to begin Tuesday, May 30. These are indicated in the listing of courses. Although offered for the convenience of Duke undergraduates, they are open for enrollment to students from other colleges whose calendar permits them to enter early. For the convenience of teachers and principals in public schools that close early a few graduate courses in Education are also offered to begin May 30.

AVAILABILITY OF ROOMS AT THE UNIVERSITY

Rooms rented from the University are not available until 9:00 A.M. the day of registration. Students arriving prior to that hour are expected to make temporary arrangements at the hotel or elsewhere. The Summer Session, however, will be glad to co-operate to help students find desirable accommodations. It is usually possible to find temporary rooms near the campus for about one dollar per person per night. Special problems of

this type should be taken up with the Director promptly. Except in rare cases, rooms for the second term will not be available until 2:00 P.M. registration day on account of late examinations scheduled for first-term students, but the Summer Session can easily adjust conflicts of this type.

Room assignments are made with the understanding that the student is expected to vacate the room within twenty-four hours after his last examination. If his last examination begins at 8:00 A.M. Monday, he is expected to vacate the room by 8:00 A.M. Tuesday, etc. In cases where the enforcement of this rule works hardships, temporary arrangement can usually be made if the Housing Bureau is notified one week in advance.

EXAMINATIONS

The last two days of each term of six weeks are devoted to examinations. The University has no provision for giving examinations *in absentia,* but students absent from examination for valid reason are permitted a liberal extension of time in which to return to the University for completion of credit.

The early opening of schools in which many Summer Session students happen to teach, sometimes necessitates the return home of students before the end of the second term. The provision made for such students is as follows: Any student whose record is superior in a given course may with the consent of his instructor and the approval of the Director of the Summer Session obtain a special examination not earlier than the fifth day before the regularly scheduled examination. If he takes such examination, the total credit in each course is reduced by one sixth; in other words, the student is interpreted as having completed five weeks of work, and his maximum allowable credit, therefore, is five semester hours.

SCHEDULE OF EXAMINATIONS UNDER THE NEW PLAN FOR THE MASTER OF EDUCATION DEGREE

For the first term, Master of Education examinations will be held as follows:

Tuesday, June 20 (registration day), 8:00-11:00 A.M. and 2:00-5:00 P.M., Room 2D, West Duke Building, examinations upon the students' minors. (All students expecting to stand this examination should file application before May 26, in order that the department may be notified to prepare examinations.)

Wednesday, June 21, 8:00 A.M.-12:00 M., Room 2D, West Duke Building, examination upon the professional major. (Only students who have completed their professional major will be permitted to stand examination at this time, and the same comment applies to the examination given toward the end of the second term.)

Monday, July 31 (registration day for second term), 8:00-10:30 A.M., 11:00 A.M.-12:50 P.M., and 2:15-5:45 P.M., examinations on the required reading courses. (Only those who have completed their required reading courses by the end of the first term of the Summer Session will be eligible for this examination.)

Examination for the second term will be given the same hours and place as follows:

Tuesday, August 1, examinations upon the students' minors. Students intending to take these examinations should apply to the Director of the Summer Session before July 16.

Wednesday, August 2, examination upon the professional major.

Wednesday, August 30, examination upon the required reading courses for those completing their reading the second term.

Except for the examinations on the minors, where longer advance notice is required, it will be sufficient to notify the Director three days before the date of the examination. No fee is required at the time that the examination is taken, but at the time of graduation the student pays one flat examination fee of $25, equivalent to the thesis fee required of other Master's candidates.

GRADUATE INSTRUCTION IN THE SUMMER SESSION

ADMISSION TO GRADUATE COURSES

A student who has received the A.B. or B.S. degree for a four-year undergraduate course may be admitted to take graduate courses in the Graduate School of Arts and Sciences of Duke University, provided his undergraduate record gives positive evidence of the ability to undertake graduate study successfully. An average grade of not less than "B" is ordinarily accepted as evidence of such ability.*

After his credentials have been accepted and he has received a permit to register, the graduate student must consult with the Director of Graduate Studies of the department in which he proposes to major before actually registering for courses. Usually this can be done on the day of registration in summer terms. The department concerned will determine whether a student is prepared to take any particular course. In all cases the student must make up without credit toward a graduate degree all prerequisites required by the major department of candidates for advanced degrees.

ADVANCED DEGREES

The degrees offered in the Graduate School of Arts and Sciences are Master of Arts (A.M.), Master of Education (M.Ed.), and Doctor of Philosophy (Ph.D.). Most of the departments of the University are now prepared to give a full program of work leading to the degree of Doctor of Philosophy.

ADMISSION TO THE GRADUATE SCHOOL

After twelve semester hours of graduate work, the student may apply for admission to the Graduate School, and thus become a candidate for the Master's degree. Such admission is dependent upon the fulfillment of two conditions. (1) The student must have made a mark of "G" or "Good" in at least three semester hours of work, with no mark less than

* For other regulations concerning admission to graduate courses, transcripts, and registration, see pages 9-10, this bulletin.

"S."* Candidates who cannot meet this condition may at a later time submit their records for re-evaluation, provided that in their subsequent work they shall have made a substantial number of "G's." (2) The student in his undergraduate work must have met substantially the requirements for the A.B. or B.S. degree at Duke University. Any deficiencies of undergraduate work must be satisfied before admission to the Graduate School.

DEGREE OF MASTER OF ARTS

Language Requirements:

Candidates for the degree of Master of Arts are required either to have a reading knowledge of a foreign language, evidenced by examination or by transcript showing the completion of the third college year of the language, or to have a reading knowledge of French and German, evidenced by examination or by transcript showing the completion of second-year college French and college German. This requirement must be satisfied before the student takes the examination on his thesis.

The Summer Session regularly offers courses in French and German for those students who wish to prepare to satisfy the requirement in either of these languages in this way.

Minimum Residence Requirements:

For graduate students who take more than fifteen semester hours for the Master's degree in the Summer Session the minimum residence requirement is thirty-three semester hours of graduate credit. Graduate students may not receive more than six semester hours of credit for work taken in one summer term of six weeks. The degree of Master of Arts or Master of Education thus can be earned in six such summer terms by students who are well prepared for graduate work, or by careful planning of thesis residence in a minimum of five and one half terms. Most students planning to complete a Master's degree within a series of summer sessions should plan to spend six terms of six weeks each in residence.

All the work offered for the Master's degree, either in the regular academic year or in summer sessions, must be completed within a period of six years from the date of beginning. Graduate courses begun earlier than six years before the completion of the work for the degree will not count either toward residence or course credit requirements.

Major and Minor Subjects:

Before selecting his major in a department, a student must have completed a minimum of twelve semester hours of approved *preliminary* courses in that department and twelve additional semester hours either in the department or in related work. This minimum is imposed by the Graduate School Council. A majority of the departments of instruction

* The system of grading used in the Graduate School is as follows: "E," or "Exceptional"; "G," or "Good"; "S," or "Satisfactory." "S" is interpreted in terms of "percentage" grading as being at least ten points above the conventional undergraduate "pass" of 70. "G" is normally interpreted as indicating that the student receiving it has standing within the upper 25 per cent of a department's students considered over a period of years.

require at least eighteen semester hours of undergraduate work, and a few require more. The student therefore should read carefully the special requirements listed by each department in the *Graduate* or the *Summer Session Bulletin.*

Each candidate for the Master's degree must select a major subject in which the minimum requirement is twelve semester hours and the thesis. A candidate must take six semester hours of graduate work in a minor subject approved by the major department, and the remaining nine semester hours in the major or minor subjects or in a department approved by the major department and by the Graduate School Council. All graduate students must take a minimum of six semester hours of work in courses numbered 300 or above unless excused therefrom by the Dean of the Graduate School on the recommendation of the major department. No undergraduate course may be credited toward the degree of Master of Arts.

Thesis:

In the minimum residence requirement of thirty-three semester hours of graduate credit is included an allowance of six semester hours for a thesis. The title of the thesis required in partial fulfillment of the requirements for the degree of Master of Arts must be filed with the Dean of the Graduate School on or before November 15 of the academic year in which it is expected that the degree will be conferred. The subject must receive the written approval of the Director of Graduate Studies of the department in which the candidate has his major field of work and also of the professor under whom the thesis is being written.

Four bound typewritten copies of each thesis must be submitted to the Dean of the Graduate School in approved form on or before May 1 of the year in which the degree is conferred. The thesis is passed upon and accepted or rejected by an examining committee of three members of the Faculty. Each candidate is required to appear before the committee for an oral examination on the thesis and major field.

CREDIT TOWARD THE MASTER'S DEGREE FOR WORK DONE ELSEWHERE

Not more than six semester hours of credit towards the Master's degree may be given to graduates of Duke University or of other approved colleges or universities for acceptable graduate courses or research work completed elsewhere. Such credit shall not shorten the minimum period of full-time residence work required at Duke University. However, with the approval of the student's major department and the Dean of the Graduate School, the student with such credit may be permitted to take six semester hours of required undergraduate training, six semester hours of a required language, or to register for nine or twelve hours of thesis research instead of the usual six semester hours. No credit toward advanced degrees is given for university extension or correspondence courses.

SUGGESTED PROGRAM OF WORK TOWARD THE MASTER OF ARTS DEGREE*

A committee of the Graduate School Council has drafted the following recommendations respecting the student's program of work toward the Master's degree:

First term: two courses in the major department, usually from numbers 200 to 299.

Second term: one course in the major department, and one course in the minor department, or two courses in the minor department.

Third term: one course in the major department or one course in the minor department, and a general course in research methods if such a course is offered by the major department. A thesis subject should be tentatively selected and filed in the Graduate School with the signed approval of a professor willing to supervise it and the Director of Graduate Studies of the major department before the beginning of the third week of the third term.

Fourth term: one course in the major department or remaining course in the minor department (if for any reason there is a remaining course in the minor). The remaining time of the fourth term should be spent in provisional work upon the thesis under at least preliminary supervision of the major professor. The filing of the title in the Graduate Office should be made permanent.

Fifth term: one course in the major department and half time devoted to the thesis under the active supervision of the major professor.

Sixth term: same as the fifth. Within five days of the beginning of his final term of study the summer student should file in the Graduate Office a notice of his intention to complete his Master's program in that term.

This plan will require eighteen semester hours of work in the major department and six in the minor department, as were required by the former rules, plus a course in research methods in the major department (or substitution elsewhere provided below) and will allow one half of the student's time for three summer terms to be devoted to his thesis work. By approval of the department and of the Dean of the Graduate School, the minor work may be enlarged at the expense of the work in the major department. If the major department does not offer a generalized course in research methods, some other courses numbered 300 or above either in the major or minor department may be substituted with the approval of the Dean of the Graduate School.

DEGREE OF MASTER OF EDUCATION

The degree of Master of Education is granted to teachers, or others engaged in educational service, upon completion of the prescribed program of study. Candidates for the degree must have had two years of

* A suggested program for the Master of Education degree would be much the same as this program, except that one of the "Reading Courses" should be taken not later than the fourth term and at least one each succeeding term.

practical experience in teaching when the degree is conferred. This experience may be obtained in the two years immediately prior to entering upon candidacy for the degree, or it may be obtained concurrently with the period of study for the degree.

A preliminary requirement for admission to candidacy for this degree is the completion of a minimum of eighteen semester hours of approved undergraduate work in education, including work in educational psychology and in history of education, educational sociology, or school administration. Three hours of general psychology may be counted as contributing toward these prerequisites.

Candidates for the Master of Education degree must take a minimum of thirty-three semester hours of graduate work in residence at Duke University. This work is classified as follows:

(1) Twelve semester hours of generalized work in education, consisting of four courses intended to help the student learn to read independently and obtain a basic understanding of education and the school.

(2) Six to twelve hours of minor work.

(3) Nine to fifteen hours of an intradepartmental or "professional" major.

The twelve hours of generalized work are conducted on a plane analogous to Honors reading* and described as follows:

Education S300.—The place of educational research, its methods of procedure, evaluation of results, special problems, etc.

Education S304.—The school as an institution—the place of the school in society, its history, and philosophy.

Education S305.—The nature, function, and organization of the curriculum.

Education S317.—The psychological principles of education—an advanced study of teaching, learning, and the learner.

An examination upon the generalized reading is given at the end of the thirty-three weeks.

For the six to twelve semester hours of minor work, the following suggestions are offered:

(a) For those candidates, whose intradepartmental, or "professional," major is public school administration, six hours in political science, economics, sociology, or other work especially listed as "related courses in other departments for majors in public school administration."

(b) For those whose professional major is public school supervision, six to nine semester hours in psychology, educational psychology, or a combination of the two, or sociology, or in specifically designated "related courses" for supervisors.

(c) For those whose professional major is secondary education, six to twelve hours in their teaching field(s), with twelve hours strongly recommended.

(d) For those whose professional major is elementary education, six semester hours in psychology, educational psychology, or an approved combination of the two, or in child welfare and development (wholly in sociology,

*Voluntary class attendance is permitted students enrolling in these courses for reading credit, except that such students are expected to report at least once in three days for discussion.

or partly sociology and psychology or educational psychology, if a satisfactory combination can be worked out).

The nine to fifteen semester hours of professional major may be in one of the following fields: (a) public school administration, (b) public school supervision, (c) secondary education, (d) elementary education. It will be observed that the degree is intended for those who definitely desire their work for professional purposes. The Master of Education degree, therefore, is not offered with a major in educational psychology or history of education. Students in these two fields would be expected to enroll for the Master of Arts degree, whereas students with majors in the other fields mentioned have choice between meeting Master of Education requirements and Master of Arts requirements.

At any time after the completion of his minor and his professional major, the student may take the general examinations on these two phases of his program on the days designated for them. Upon the fulfillment of all residence requirements, he will be given a comprehensive written examination upon the twelve hours of generalized readings. Any of these examinations may be rejected upon the grounds of poor usage of English.

If a student prefers to submit a thesis and take a final examination on it and on his major field instead of taking the reading courses and comprehensive examinations, he may do so with the approval of the Department of Education. Six semester hours of credit will be allowed for the thesis in the total of thirty-three required for the degree.

As in the case of the requirements for the Master of Arts degree, all work presented for the degree must be completed by the candidate within a period of six years from the date of beginning. Graduate credits from other approved institutions may be accepted toward course requirements up to a maximum of six semester hours. The acceptance of such credit will not reduce the amount of required resident study at Duke University for which the student must register. With the approval of the student's major department and the Dean of the Graduate School, the student with such credit may be permitted, however, to take six semester hours of required undergraduate training, or to register for nine or twelve hours of thesis research instead of the usual six semester hours.

DEGREE OF DOCTOR OF PHILOSOPHY

A student who plans to enter upon a program of work leading to the degree of Doctor of Philosophy should consult, or enter into correspondence with, the Dean of the Graduate School and the head of the department concerned. He will then be advised as to the possibility of securing necessary instruction and supervision of research in the desired field. Credit for as much as one year of graduate work done in summer sessions may be given with the approval of the Graduate School and the department in which the student takes his major work. The student should consult the bulletin of the Graduate School for a full statement of requirements for the degree of Doctor of Philosophy.

THESIS WRITING IN SUMMER SESSION

Since Duke University grants no Master of Arts degree except upon completion of a satisfactory thesis, every candidate for that degree who expects to complete his work in the Summer Session should as soon as possible after completing his first term of residence choose a field in which he desires to write a thesis and confer with some instructor offering graduate courses in that field. The following points should be kept clearly in mind when arrangements are made for thesis supervision:

1. The thesis subject, which must be approved by the instructor who undertakes supervision and by the Director of Graduate Studies of the student's major department, is filed in the Graduate School Office on the blank regularly provided for that purpose. If the instructor believes that a topic proposed by a student is unsuitable, or that the student is not prepared to develop it, or that the instructor is not prepared to supervise it, his decision is final.

2. A student may enroll for six semester hours of residence credit towards a thesis or for less, in one term of six weeks. If he enrolls for only three semester hours he may enroll also for a course of three semester hours, but he cannot enroll for a total of more than six semester hours of credit, including residence toward his thesis. Completion of six semester hours of residence toward his thesis does not guarantee the satisfactory completion of the thesis, which must be acceptable to the instructor supervising it and to a committee representing the Council on Graduate Instruction. Students who do not complete their theses the first term they register for supervision have the privilege of registering a second term upon payment of regular dues, but are not required to do so. Since the numbers permitted to enroll in thesis seminars are strictly limited, such students are not permitted to register for a third term of supervision.

3. A student may either enroll in a specifically designated "thesis" course or, if his preparation meets the approval of the instructor in charge, attach himself to some regularly offered course in his field of study and report periodically to the instructor offering the course.

A student enrolling for thesis residence credit in regular course pays the same fees as other students during the summer of residence. At the time of graduation he pays the same diploma and commencement fees as other students and a thesis supervision fee of $25.*

5. Students enrolling for thesis supervision during the Summer Session are expected to complete their theses largely during the summer of enrollment or some subsequent summer term. The instructor with whom they enroll is not under obligation to give active supervision during the academic year, although instructors are willing to give a reasonable amount of attention to theses practically completed. Similarly, instructors in Duke University who are not teaching in the Summer Session are not expected to undertake the supervision of theses written by summer school students.

6. Students enrolled for thesis supervision in the first summer term who expect to receive their thesis examination during that term should submit the bound copies of their theses to the Graduate School Office at least four days before the end of the term. They may then be distributed by the examining committee. Failure to complete the thesis by that time will generally require deferment of the examination until the following term. Those who work on their theses during the second summer term must complete their theses and submit the bound copies to the Graduate Office at least four days before the conclusion of the term if they wish to receive their diplomas in September. Students who fail to complete their theses by the conclusion of the second term must plan to take the final examination either in the following summer

* Students completing the M.Ed. degree by examination pay an examination fee of $25, in lieu of the thesis supervision fee.

or in the following academic year. It is the policy of the University not to give examinations to candidates for the advanced degrees during the time between the Summer Session and the academic year.

7. Students of the academic year who do not complete theses begun prior to the Summer Session are not accepted for Summer Session enrollment unless their subjects are in the field of some thesis seminar or other course offered by an instructor who recommends that such students be assigned to his supervision during the summer. Instructors who are employed for full time by the Summer Session are specifically requested not to carry over into the summer thesis students whose subjects are not properly a part of work such instructors are offering in the Summer Session.

ROOM AND BOARD

Board and room for a term of six weeks may be secured in the men's dormitories at the rate of $62.50 for a single room, $57.50 for each occupant, with two in a room, or $70.00 if double room alone is engaged. On account of extra service the rate in the women's dormitories is one dollar a term higher; that is, $63.50 for a single room, $58.50 for each occupant, with two in a room, and $71.00 for a double room alone. Many of the rooms on the East Campus are single rooms; on the other hand, on the West Campus there are very few single rooms, most of these being on the third floor. On both campuses there are certain "premium" rooms for which the rate for six weeks is $1.50 higher per occupant with roommate and $2.50 higher for single occupants in the rooms. A list of these "premium" rooms will be furnished upon request, such rooms being corner rooms or rooms with unusual ventilation or size. During the summer of 1944 all students, graduate and undergraduate, will be housed on the East Campus. Jarvis Building on that campus will be the only dormitory reserved for graduate men. Occupants of University rooms furnish their own bed linen, blankets, pillows, and towels. All other essentials are supplied by the University.

For the summer of 1944 there is no dormitory available for married students whose wives accompany them. Students, therefore, who desire to bring their families should write the Director for a list of private rooming places where outside accommodations may be obtained.

The rules and regulations in all dormitories are substantially the same as those in the regular academic year. Students are strongly advised against installing in their rooms radios, and other appliances likely to annoy other occupants.

Residents of University dormitories are advised to board in the regular dining room of the Union, where at mealtime there is the opportunity to meet with fellow students, and where, because board is furnished at cost, the greater number of students guarantees better board for all. The Woman's College requires that undergraduate women students board at the Union. The service is cafeteria plate-service. Men who live in the dormitories but desire to board elsewhere than in the regular dining room will pay room-rent at the rate of $17.50 for single room, $12.50 for each occupant, with two in a room, or $25.00 for a double room, alone; and women at the respective rates of $18.50, $13.50, and $26.00.

Certain rooms are $1.50 per term higher per occupant with roommate and $2.50 higher for single occupant in these rooms than in other rooms. Students who room off the campus but desire board in the Union may obtain it for $45.00 for the six weeks.

FEES

Teachers in active full-time service in schools and colleges are exempt from tuition fees for as many as four terms of six weeks in a period of six years. After their fourth term they pay regular tuition charges. All other students are charged a tuition fee of $8.00 for each college credit hour, or $4.00 for each semester hour, maximum tuition being $24.00 for six weeks, or $30.00 for courses running seven weeks. All students, teachers included, pay a registration fee of $20.00 per term. Students in the sciences pay the laboratory fees required in regular term, and students completing degrees pay the regular commencement charges at the time of receiving their degrees, besides the thesis supervision of M.Ed. examination fee of $25.00 required of persons completing Master's degrees.

Major expenses are estimated as follows for each term:

Registration	$20.00
Room-rent and board	58.50
Total major expenses to teachers	$78.50
Tuition required of other students	24.00
Special fee for "School of Spanish Studies"	5.00

In the men's dormitories, as has been stated, the charge for rooms is one dollar less, making the total major expenses for occupants $77.50. To these totals should be added about $7.00 for books, probably $3.00 for miscellaneous expenditures, and laboratory fees for any science course the student may elect. (For laboratory fees, see description of courses in this announcement.)

RESERVATION IN ADVANCE

Classes are of limited enrollment. All applications for registration in classes, as well as applications for rooms, are filed in the order in which they are received. Each application for a reservation of courses should be accompanied by a check for $5.00 in part payment of the registration fee unless room-rent is enclosed. This payment is not a room reservation. *No specific rooms are assigned except upon receipt of full room-rent.* Because it is uncertain that late applicants will find room on the campus, *students are urged to reserve specific rooms in advance.* They may reserve specific rooms by paying at the time the reservation is made, the regular charge for the room reserved, usually $17.50 (or $18.50) for a single room, $12.50 (or $13.50) for a room with roommate, $25.00 (or $26.00) for a double room alone, or these prices with the additional charge for premium rooms. Specific room reservation for the first term may be made at any time. Since the total registration for the first term affects the decision as to which buildings are to be used the second term,

specific reservation for second term should not be requested before July 20. No room may be reserved by more than two students, but adjoining rooms may be reserved by groups who desire to be together. Students who enroll for the first term have priority in reserving their first-term rooms for the last term. The University reserves the right in the interest of the Summer Session and the other students to cancel any reservation of courses or room without assignment of reason. Any student making deposit for reservation or room-rent is entitled to withdraw with full refund at any time within five days prior to registration without assignment of reason.

"SCHOOL OF SPANISH STUDIES"

Because of the increased interest in Spanish studies throughout the nation and the great expansion of Spanish and Spanish enrollments in the colleges and high schools of this region, the Summer Session will again offer an unusual grouping of courses in Spanish the first term of the Summer Session, extending from elementary work through second- and third-year Spanish to graduate work and advanced seminars. It is planned to supplement the courses with liberal opportunity for speaking the language, hearing lectures in Spanish, and conducting discussions and evening programs in the language. It is planned also to have Spanish-speaking tables in the University Union and a Spanish house in one of the East Campus dormitories. Both Castilian and Spanish-American culture and literature will be emphasized. (For details of the "School of Spanish Studies," see courses listed under "Spanish" in this announcement, or address the Director of the Summer Session for special folder.) Because of special facilities provided in "Spanish Studies," there is a special fee of five dollars charged, but all other expenses are the same as in other parts of the Summer Session.

The "school" is intended to offer to students and teachers an opportunity for intensive training in the Spanish language and basic orientation in the literature and cultural background of the Hispanic world. Under the plan of organization, the "school" will offer special features of a segregated institute wherein use of the language in and out of the classroom and the presence of native teachers is designed to create the atmosphere of foreign study. The work is intended for the following groups of persons:

1. High-school and college teachers who need review or further training and orientation for their professional equipment;
2. Undergraduates who intend to major in Spanish;
3. Prospective teachers of Spanish and specialists in other fields (business, military or government service, history, etc.) whose work may require a knowledge of Spanish;
4. Graduate students in Spanish;
5. College teachers who wish to pursue advanced studies in Hispanic literature or cultural history.

THE SCHOOL OF LAW

The School of Law of the University, in association with the Law School of Wake Forest College, will offer a full semester of work during the summer, with a faculty of eight full-time men in addition to the staffs of the Legal Aid Clinic and the Law Library. The School will be conducted at Duke University on the basis of three semesters per year so that the normal three-year course may be completed in two calendar years and thus affords opportunity for those who are now able to engage in law study to accelerate their professional training during a period when there is an urgent demand for well-trained persons, both men and women, in private offices and Government service. Instruction in the Summer Session of the Law School will begin Monday, May 29, and end September 9.

The courses will be so arranged that all subjects will be completed in the semester in which they are offered. Complete courses are offered for beginning students as well as for advanced students transferring from other law schools. During the emergency, students with superior grades will be admitted who have completed two years of college work.

For further information, including courses and expenses, address the Dean of the School of Law, Duke University.

SUMMER SESSION OPPORTUNITIES FOR GRADUATE STUDENTS

A majority of the students in the Summer Session are graduates of standard colleges, most of them supervisory officials and teachers in the public schools. Departments of instruction, therefore, offering courses related to the common secondary-school curriculum have built up regular sequences of graduate work continuing through a series of summer terms in which graduate students may enroll with reasonable assurance that sufficient work will be offered to enable a properly qualified student to complete Master's requirements easily within the period permitted by the University. Departments in which sufficient demand for graduate courses has developed to enable students to complete Master's degrees are Botany, Economics, Education, English, French, History, Mathematics, Physics, Political Science, Religion, Sociology, Spanish, and Zoology. It is intended to add complete sequences in other departments as rapidly as demand justifies. The Divinity School offers work toward the B.D. and other advanced degrees. In the Department of Education complete sequences of work for the Master's degree are offered in the divisions of public school administration, public school supervision, secondary education, educational psychology, and elementary school education. This variety of offerings should cause students in this department to be especially careful to select a unified course.

In all departments a graduate student must select his minor with the approval of his major department. Under "Courses of Instruction," pages 27-39, this bulletin, specific regulations and suggestions of departments are given. It is important for all degree candidates to choose

their courses according to some unified plan. Mere accumulation of more or less unrelated credits in various divisions of a department with a minor in some department only remotely related to the student's major work will not be accepted as meeting requirements for a graduate degree. Students are advised to choose their first term's work along the line of their major interest and then each succeeding term exercise increasing care in advising with their major professor and the Dean of the Graduate School as to properly related work.

APPOINTMENTS BUREAU

A Teachers' Appointments Bureau is maintained in Room 113, Administration Building, West Campus, for the benefit of teachers desiring a change of position. There is no charge for this service.

RELIGIOUS SERVICES

University religious services are held each Sunday morning at eleven o'clock, to which all students are invited. In the summer of 1943 the student choir, a voluntary organization, enrolled more than one hundred and twenty-five students.

RECREATION AND ENTERTAINMENT

At the time of registration every student receives an identifying ticket entitling him to admission to all recreational facilities available under wartime conditions. There are also an evening play hour sponsored by the Department of Physical Education and a Sunday evening "sing" that has grown to be a tradition among the quadrangle students.

Mr. Anton Brees, Carillonneur of the Mountain Lake Singing Tower, Lake Wales, Florida, will give recitals on the fifty-bell carillon of the University at stated times twice a week during the Summer Session.

The national honor society in education, Kappa Delta Pi, maintains a weekly forum to which all students are invited.

State clubs, organized by students from the states best represented in the student body, chiefly the students from West Virginia, Pennsylvania, and Ohio southward to Florida and Mississippi, co-operate with the Social Director to provide wholesome recreational life for the students. The first Thursday evening of each term is set aside for the opening general assemblies of students and Faculty.

INSTITUTE FOR TEACHERS OF SECONDARY MATHEMATICS JULY 3-15

The Institute for Teachers of Secondary Mathematics will hold its annual summer session from July 3-15. There will be morning, afternoon, and evening meetings each day during the Institute. The Summer Session in co-operation with the North Carolina State Department of Public Instruction is providing special lectures to emphasize the follow-

ing topics: "Visual Aids in Mathematics," July 3-5; "Air and Sea Navigation," July 6-8; "Mathematical Education," July 4-14; "Consumer Mathematics," July 10-12; and "Applications of Mathematics to Engineering," July 13-15. Professor K. B. Patterson, of the Mathematics Department, will conduct "observation parties" in astronomy, July 7-11. Registration will be $2.00. Those who desire can get room and board in the University at the rate of $2.00 per day with two in a room, and $2.50 per day for a single room. A complete program will be sent upon request after April 20. For further information, write the Director of the Summer Session or Professor W. W. Rankin, Director of the Mathematics Institute, Duke University.

SPECIAL NOTE TO UNDERGRADUATE STUDENTS TRYING TO ACCELERATE GRADUATION

It is the policy of the University to assist in any reasonable way students trying to accelerate their university work because of the national emergency. The Summer Session of 1944 is trying to make special provision for the following groups of students:

1. Those who lack fifteen hours or less of graduation (Provision has been made to permit a maximum of fifteen semester hours to be completed between May 30 and September 9. See concluding paragraph of this note.);

2. Those who need six or twelve semester hours in order to be able to graduate in one more semester;

3. Those who last summer planned to take at least twelve semester hours this coming summer in order to complete graduation in the fall semester.

Special attention is called to the courses that are tentatively offered to enable students to obtain three semester hours before the beginning of the regular Summer Session classes (first term) June 20.

COURSES OF INSTRUCTION

EXPLANATIONS AND ABBREVIATIONS

Classes meet daily five times per week for six weeks unless otherwise indicated. Classes that meet for sixty-minute periods are indicated as carrying two semester hours of credit. Classes meeting eighty-five-minute periods daily count for three semester hours except where credits are stated otherwise. Courses are arranged alphabetically by departments. The course numbers are same numbers used in describing courses in the regular term, with the letter "S" preceding; for example, Chemistry S1 would correspond to Chemistry 1 of the regular term.

Certain abbreviations occur; for example, *A* means that the course comes the first eighty-five minutes daily, beginning at 8:00; *B* means that the course comes at the eighty-five-minute period beginning at 9:40; *C* means that the course comes at the eighty-five-minute period beginning at 11:20; *D* means that the course comes at the eighty-five-minute period beginning at 2:15. Unless stated to the contrary all classes are scheduled for the East Campus. For complete schedule of rooms and courses, students should consult official bulletin boards at time of registration.

N.B.—Different State Departments of Education grant professional credit for various courses in accordance with their own carefully defined rules. Every student should inquire carefully at or before registration as to what professional credit is allowed for each course in his state.

MINIMUM ENROLLMENT REQUIRED FOR COURSES

Many courses are offered in spite of small enrollment. The University, however, reserves the right to withdraw undergraduate courses in which fewer than twelve students enroll, graduate courses numbered 200 or above in which fewer than ten students enroll, and graduate seminars numbered 300 or above in which fewer than six students enroll. If courses are withdrawn, the University attempts to avoid undue hardship for students enrolled toward degrees that they could possibly complete the current summer.

COURSES REQUESTED THAT ARE NOT OFFERED

On the other hand, if unexpected demand arises, some courses not announced will be given, provided sufficient demand is expressed at least thirty days prior to the opening of the Summer Session and provided the University has available on its undergraduate or graduate staff an instructor who has been offering the course desired. A minimum of fifteen students is usually interpreted as sufficient demand, except in cases where the proposed enrollment is too heavily withdrawn from courses already offered.

BIOLOGY, BOTANY

See courses listed under "Duke Marine Laboratory," following "Zoology," in this announcement.

ECONOMICS

For admission to candidacy for the Master of Arts degree in Economics, the student must meet the general requirements for admission to the Graduate School and must have had twelve semester hours in Economics, including Principles of Economics. Twelve additional semester hours must be offered in Political Science, Sociology, or History.

Every candidate for a Master's degree must elect six semester hours of graduate work in Economic Theory. The other twelve hours in Economics should be elected as follows: six hours in the field in which he writes his Master's thesis and three hours in each of the two other fields. For purposes of concentration, the fields in addition to Economic Theory shall be Finance, Economic History, History of Economic Thought, and Social Economics. The minor of six semester hours must be taken in Political Science, Sociology, or History, or in some other department approved by the major department.

S51. Principles of Economics.—A short course in the essential principles of economic science. (This course will not count as a part of the minimum economics requirements for graduation until the equivalent of S52 has been completed. It will, however, count as elective credit.) *A, C, May 30-June 19.* **3 s.h.** MR. KREPS

S52. Principles of Economics.—A continuation of Economics S51, with emphasis on economic problems. (This course will not count as part of the minimum economic requirements for graduation until the equivalent of S51 has been completed. It will, however, count as elective credit.) *A, C, June 20-July 11.* **3 s.h.** MR. KREPS

S109. The Economic Geography of Latin America.—This course involves comprehensive study of the resources and people of Mexico, the West Indies, and Central and South America. Special emphasis is placed upon the possibilities and limitations of increases in trade between the United States and the leading Latin-American countries. *A, C, July 11-31.* **3 s.h.** MR. LEMERT

S120. Economic Geography of the Pacific.—The physical influences, natural resources, and economic activities of Asia, Oceania, and portions of the western coasts of North and South America with special emphasis upon their relationship to present developments. *A, C, August 1-21.* **3 s.h.** MR. LEMERT

S217. Population, Resources, and Standards of Living.—A critical survey of the economic laws of returns and pre- and post-Malthusian population theory; consideration of the relation between natural increase and the laws of economic distribution and of the effects of changes in the rate of natural increase upon various classes of industry and upon employment; examination of the factors which govern population growth and of current population trends; analysis of international economic and political problems which are founded upon population pressure; consideration of the economic and the biological aspects of differential birth-rates. *B, June 20-July 31.* **3 s.h.** MR. SPENGLER

S286. Latin-American Economics.—Facts and factors in the economic structure and growth of the Latin-American nations; population, labor productivity, and standards of living; problems of industry, agriculture, and mining; transportation and public utilities; monetary and fiscal policies; the migration of capital and the role of the United States as a creditor nation; economic thought and institutions. *C, June 20-July 31.* **3 s.h.** MR. SMITH

EDUCATION

For admission to candidacy for the Master of Arts (A.M.) degree with major in Education, or for the Master of Education (M.Ed.) degree, students must, in addition to meeting the general requirements for admission to the Graduate School, meet the following specific requirements: 1. Eighteen semester hours of acceptable prior work in Education; 2. Twelve semester hours acceptable prior work in a minor field (Exceptions: if Psychology, Sociology, Economics, or Political Science is offered for the minor, six semester hours of work completed after entering the junior year in college will be accepted).

Graduate courses in the Department are grouped under the following subdivisions: Public School Administration, Public School Supervision, Secondary Education, Elementary School Edcation, and Educational Psychology. Every candidate for the Master of Arts degree in the Department should elect at least twelve semester hours in one of these fields in which he intends to write his thesis and the remainder of his work, including the six semester hours in his minor, with the approval of the proper division adviser. Dr. Proctor is adviser to students in School Administration; Dr. Proctor, Dr. Carr, and Dr. Scates advise majors in Supervision; Dr. Carr is adviser in Elementary Education; Professor Childs advises in Secondary Education; and Dr. Brownell and Dr. Scates advise in Educational Psychology. Candidates for the M.Ed. degree under the new requirements should read with special care the regulations of the Graduate School as set forth on pages 13-20, this bulletin.

PUBLIC SCHOOL ADMINISTRATION (GRADUATE COURSES)

(Master's candidates in this division elect their minor work in Political Science, Economics, or Sociology. Candidates for the Master of Education under the new plan must take fifteen semester hours of work from the courses specifically listed under this division.)

S203. Principles of School Administration.—Prerequisite: six semester hours of courses in classroom management and educational psychology. This course is recommended for all students beginning a major in school administration. *A, June 20-July 31.* 3 s.h. MR. PROCTOR

S213. Problems of the Organization of the Elementary School.—A study of the work of the elementary school principal. *A, C, May 30-June 19.* 3 s.h. MR. PROCTOR

S234. Secondary School Organization and Administration.—A study of the outstanding problems of secondary school organization and administration other than problems of gradation and classification of pupils. (For these two problems, see course S273 listed under Supervision.) *C, June 20-July 31; B, D, August 1-21.* 3 s.h. MR. HIGHSMITH *(first term)* MR. GOLDTHORPE *(second term)*

[Not offered August 1 if there is greater demand for S304.]

S323. Public School Finance.—A study of educational costs, sources of revenue for the support of public education, collection of revenue, basis of distribution, and accounting for funds spent. *C, June 20-July 31.* 3 s.h. MR. PROCTOR

S333X. Thesis Seminar: Research in School Administration.—For thesis students and others by permission. *Credit to be arranged. B, C, August 1-21.* 3 s.h. MR. PROCTOR

S363. City School Organization and Administration.—Problems confronting the administrative officer in local schools, such as relations of superintendent with board and public, organization of schools, development of curricula, selection and promotion of teachers, etc. *A, June 20-July 31.* 3 s.h. MR. GOLDTHORPE

Other courses accepted, not to exceed a total of nine semester hours, as work in School Administration are the following, when the student has the approval of his major professor: S209, S232, S233 or S233A, S273, S287, S288, S293, S305, listed under the division of Supervision; S208, S258, listed under Educational Psychology; S264 and S304, listed under History of Education; S205, S206, S216, listed under Secondary Education; and S207, S212, S222, listed under Elementary Education. It will be noticed that not all of these courses are offered this summer, but the complete list is published for the benefit of students who have already completed those not offered in 1944.

PUBLIC SCHOOL SUPERVISION (GRADUATE COURSES)

(Master's candidates in this division elect their minor work in Psychology or an approved combination with Educational Psychology, or in Sociology. Master of Education candidates are permitted as many as nine semester hours of work in their minor, but take the remaining twelve or fifteen, if minor is only six hours, from courses specifically described or listed under Supervision.)

S209. Statistical Methods in Education.—A course intended to familiarize teacher, supervisor, and administrator with the statistical method of treating educational and social data, so as to enable them to interpret and use the results of recent investigation in the science of education. Presented primarily from the point of view of the classroom teacher. *D, June 20-July 31.* 3 s.h.
MR. SCATES

S222. The Curriculum and Materials of the Elementary Grades.—A study of curriculum problems in the elementary schools. *C, June 20-July 31.* 3 s.h.
MR. HILLMAN

S232. Elementary School Supervision.—A survey of supervision as a means of improving instruction and adapting the curriculum to child and community needs. *D, June 20-July 31.* 3 s.h. MR. CARR

S273. Problems of High-School Supervision.—A consideration of such problems as aims and purposes of high-school supervision, elements of an effective supervisory program of supervision for city and rural schools, the administration of supervision. *B, June 20-July 31.* 3 s.h. MR. HIGHSMITH

S287. Problems of Mentally and Educationally Retarded Children.—The causes, types, and degrees of mental retardation; psychological theories of mental deficiency; the education of slow learners in regular and special classes; the organization, objectives, curriculum, and teacher of the special class; the social and eugenical bearings of mental deficiency. The educational problems receive major consideration. *A, B, June 20-July 10.* 3 s.h.
MR. WALLIN

S304. The School as an Institution.—The place of the school in society, its history and philosophy. This is one of the reading courses required for the Master of Education. Selected problems guiding the reading of students will be discussed in class, and reading students are expected to attend the class from time to time. Other students may take the course for three semester hours credit, as any other graduate course listed. *B, June 20-July 31; B, D, August 1-21.* 3 s.h. MR. GOLDTHORPE
[Not offered August 1 if there is greater demand for S234.]

S305. The Nature, Function, and Reorganization of the Curriculum.—This is one of the reading courses required for the Master of Education degree. Selected problems guiding the reading of students will be discussed in class, and reading students are expected to attend the class as suggested by the instructor. Other students may take the course for three semester hours credit, as any other graduate course listed. *A, June 20-July 31.* 3 s.h.
MR. CARR

Other courses accepted, not to exceed a total of six semester hours, as work in School Supervision are the following, when the student has the approval of his major professor: S234, S343, S363, listed under the division of Administration; S300, S208, S218, S258, S317, listed under Educational Psychology; S214, S264, S304, listed under History of Education; S205, S206, S216, S226, S236, S246, S266, S276, listed under Secondary Education; and S207, S212, S213, S237, S247, S257, listed under Elementary Education.

EDUCATIONAL PSYCHOLOGY (GRADUATE COURSES)

(The Master of Education degree is not offered in this division. Master of Arts candidates should choose Psychology for their minor subject. It will be observed that certain of the courses listed under Educational Psychology are also listed under Supervision, Secondary Education, or Elementary Education.)

S209. Statistical Methods in Education.—*D, June 20-July 31.* 3 s.h.
MR. SCATES

S216. Psychological Principles of Secondary Education.—A study of adolescence and the psychology of learning as applied to teaching the principal high-school subjects. *A, C, July 11-31.* 3 s.h. MR. CHILDS

S218. Educational Implications of Genetic Psychology.—A course tracing the development of the individual through the stages of growth and learning, with emphasis upon early and later childhood; the development of such behavior patterns as play, language, etc.; the process of socialization; and similar material of special significance to teachers in the elementary schools. An advanced section of S118, not open for enrollment to students who have credit for that course. Prerequisite: six semester hours of psychology or educational psychology. *A, C, August 1-21.* 3 s.h. MR. BROWNELL

S237. Investigations in Reading.—A summary of the more important scientific studies in reading; interpretation of the results in terms of aims, methods, materials of instruction, testing, diagnosis, and supervision; emphasis on problems requiring further investigation. *B, June 20-July 31.* 3 s.h.
MISS VAN ALSTYNE

S238. Remedial Reading: Problems and Techniques in Grades III to VI.—This course will give practice in applying remedial reading techniques to actual cases of poor readers in Grades III to VI. The work will include testing, diagnosis, and daily tutoring (Monday through Friday) of one or more cases for the six weeks period. A survey and evaluation of remedial reading techniques will be given. During the first week the class will meet daily, but later the work of the class will be accomplished largely through supervision and conferences. The class presupposes previous intensive study of the psychology of reading, and will be limited to ten students. *Materials fee, $2.00,* in addition to textbook. Enrollment with the consent of the instructor. *D, June 20-July 31.* 3 s.h. MISS VAN ALSTYNE

S247. Investigations in Arithmetic.—An analytical survey of investigations in arithmetic, with three purposes in view: (1) to examine the techniques employed with respect to their adequacy as means of solving the problems attacked; (2) to test the validity of the results announced and the values of these results for the teaching of arithmetic; (3) to locate further problems in arithmetic in need of scientific research. *C, June 20-July 31.* 3 s.h.
MR. BROWNELL

S287. Problems of Mentally and Educationally Retarded Children.—*A, B, June 20-July 10.* 3 s.h. MR. WALLIN

S300. Introduction to Educational Research.—Primarily a pre-thesis writing course designed to be liberalizing as well as technical. The general purpose is to give the student an overview of research, acquaint him with the nature of research processes, and develop within him an appreciation of the essential characteristics of good research work. *C, May 30-July 10; C, June 20-July 31; C, July 11-August 21.* **3 s.h.** MR. SCATES

S300X. Educational Research.—Thesis credit only. *August 1-21.* **3 s.h.** MR. SCATES

S317. The Psychological Principles of Education.—An advanced study of teaching, learning, and the learner. This is one of the reading courses required for the Master of Education degree of students beginning work after June 1, 1938. Selected problems guiding the reading of students will be discussed in class. *D, June 20-July 31.* **3 s.h.** MR. BROWNELL

SECONDARY EDUCATION (GRADUATE COURSES)

(Master's candidates in this division should elect minor work in their teaching subject, or in Psychology or Sociology. Master of Education candidates are required to elect their minor work in their teaching subject, and all of their work in Education must come from courses listed in this division.)

S205. Curriculum Problems in Secondary Education.—A consideration of practical problems of curriculum-making in the high school, in the light of the objectives of secondary education. *A, C, August 1-21.* **3 s.h.** MR. CHILDS

S206. Sociological Foundations of Secondary Education.—A consideration of the fundamental institutions of society and the problem of preparing youth to participate in them. The aims and objectives of the secondary education are considered in the light of the school as the strategic agent for guidance. This course is closely related both to S205 and S215. *B, June 20-July 31.* **3 s.h.** MR. GWYNN

S215. Educational and Vocational Guidance.—A survey of the literature on guidance with special reference to secondary education; a critical study of the principles and techniques used in guidance; an attempt to locate the problems most urgently in need of solution. Prerequisite: twelve semester hours in the Department, including course 105 or course 206. *A, June 20-July 31.* **3 s.h.** MR. GWYNN

(Course S105 is elementary Educational Sociology.)

S216. Psychological Principles of Secondary Education.—*A, C, July 11-July 31.* **3 s.h.** MR. CHILDS

S234. Secondary School Organization and Administration.—*C, June 20-July 31; B, D, August 1-21.* **3 s.h.** MR. HIGHSMITH *(first term)* MR. GOLDTHORPE *(second term)*

(Not offered August 1 if there is greater demand for S304.)

S273. Problems of High-School Supervision.—*B, June 20-July 31.* **3 s.h.** MR. HIGHSMITH

Other courses accepted, not to exceed a total of six semester hours, as work in Secondary Education are the following, when the student has the approval of his major professor: S233 or S233A, S287, S289, S209, S224, listed under the division of Supervision; S208, S217, S218, S219, S258, listed under Educational Psychology; and S264 under History of Education.

ELEMENTARY EDUCATION (GRADUATE COURSES)

(Master's candidates in this division should take their minor work of six semester hours in Psychology, Educational Psychology, or an approved combination of the two, or in Child Welfare and Development—wholly in Sociology, or partly Sociology and Psychology, or Educational Psychology, if a satisfactory combination can be worked out. Master of Education candidates in this division must take fifteen semester hours of work described or listed under Elementary Education.)

S213. Problems of the Organization and Administration of the Elementary School.—*A, C, May 30-June 19.* 3 s.h. MR. PROCTOR

S218. Educational Implications of Genetic Psychology.—*A, C, August 1-21.* 3 s.h. MR. BROWNELL

S222. The Curriculum and Materials of the Elementary Grades.—*C, June 20-July 31.* 3 s.h. MR. HILLMAN

S232. Elementary School Supervision.—*D, June 20-July 31.* 3 s.h. MR. CARR

S237. Investigations in Reading.—*B, June 20-July 31.* 3 s.h. MISS VAN ALSTYNE

S238. Remedial Reading Problems and Techniques in Grades III to VI.—*D, June 20-July 31.* 3 s.h. MISS VAN ALSTYNE

S247. Investigations in Arithmetic.—*C, June 20-July 31.* 3 s.h. MR. BROWNELL

S268. Investigations in Geography.—A study of surveys and investigations in geography, with reference to: (1) nature and scope of the subject; (2) its place in realizing the aims and objectives of elementary education; (3) methods of teaching. *B, June 20-July 31.* 3 s.h. MR. HILLMAN

S287. Problems of Mentally and Educationally Retarded Children.—*A, B, June 20-July 10.* 3 s.h. MR. WALLIN

S304. The School as an Institution.—*B, June 20-July 31; B, D, August 1-21.* 3 s.h. MR. GOLDTHORPE
(Not offered August 1 if there is greater demand for S234.)

S305. The Nature, Function, and Reorganization of the Curriculum.—*A, June 20-July 31.* 3 s.h. MR. CARR

Other courses accepted, not to exceed a total of six semester hours, as work in Elementary Education are the following, when the student has the approval of his major professor: S224, S233 or S233A, listed under the division of Supervision; S208, S217, S219, listed under Educational Psychology; and S264 under History of Education.

COURSES RECOMMENDED FOR DEANS OF WOMEN AND OTHER PERSONS INTERESTED IN GUIDANCE AND COUNSELING

Persons interested in preparing for positions such as dean of women, girls' adviser, director of guidance, and the like, are advised to plan a Master's degree consisting of graduate courses drawn from educational psychology and supervision, general psychology, and sociology, from such courses as the following:

Education

S206. Sociologic Foundations of Education.
S208. Mental Tests and Applications.
S215. Educational and Vocational Guidance.

S218. Educational Implications of Genetic Psychology.
S233. Pupil Accounting, or
S233A. Pupil Personnel Problems and Procedure.
S234. Secondary School Organization and Administration.
S258. Educational Measurements.
S287. Problems of Mentally and Educationally Retarded Children.
S288. Problems of Mental Hygiene and Education.
S289. Character and Personality Testing.
S305. The Nature, Function, and Reorganization of the Curriculum.
S317. Advanced Educational Psychology.

Psychology

S204. Psychology of Motivation.
S206. Social Psychology.

Sociology

S205. Social Pathology.
S212. Child Welfare.
S216. Urban Sociology.
S220. Rural Sociology.
S236. Social Ethics.

Of course, no one student can take all these courses within the limits of a Master's degree, and there are other courses that individual students may feel they need after consultation with their advisers. The plan is to meet the individual needs of the prospective candidate rather than to prescribe a rigid course that he must follow.

ENGLISH

Those who wish to become candidates for the Master's degree in English are expected to have at least twelve semester hours in courses above Sophomore requirements. The Department reserves the right to require additional course work on the graduate level if the work of the student in his first term indicates inadequate preparation. For admission to candidacy with a major in American Literature, the student must present courses S137-S138 or an acceptable equivalent in American Literature either as part of the twelve stipulated above or in addition to them.

Master's candidates in English are required to complete at least three semester hours in Chaucer or certain other designated courses. Master's candidates who have completed as many as twelve semester hours of graduate work should take also the bibliography course, S301, at their earliest opportunity.

All graduate students in English who enter the Summer Session after June 1, 1940, must take a general examination set by the advisory committee of the Department before they will be admitted to candidacy for a degree. This examination is held at the opening of the first term of the Summer Session each year. It must be passed by every student not later than the beginning of his third term of summer work.

S55. Representative English Writers.—Homer, Malory, More, Shakespeare, Pepys, and Swift will be studied. *A, June 20-July 31.* **3 s.h.**
MR. BLACKBURN

S56. Representative English Writers.—Fielding, Boswell, Goldsmith, Sheridan, Byron, Carlyle, Thackeray, and Strachey will be studied. *B, June 20-July 31.* **3 s.h.** MR. BLACKBURN

S64. English Poetry of the Eighteenth and Nineteenth Centuries.—Readings in Pope, Gray, Collins, Burns, Wordsworth, Coleridge, Byron, Shelley, Keats, Tennyson, Browning, Arnold, Swinburne, Hardy, and Housman. Weekly tests. *A, C, May 30-June 19.* **3 s.h.** MISS POTEAT

S120. History of the Theater (Modern).—A study of the development of the theater, of methods of production, and of representative plays. *B, D, June 20-July 10.* 3 s.h. MR. WEST

S125. English Literature of the Romantic Period.—Readings (chiefly of poetry) in Burns, Wordsworth, Coleridge, Southey, Scott, and Lamb. Lectures, recitations, and tests. *B, June 20-July 31.* 3 s.h. MR. PATTON

S139. The Speaking Voice.—This course gives training in placement, pitch, range, and diction for use in professional work and in daily conversation. *A, C, May 30-June 19.* 3 s.h. MR. WEST

S167. English Prose, 1790-1815.—Readings in the writers and orators who reflect the English interest in the French Revolution and the new trends in social and political thought. Burke, Paine, Godwin, Fox, Sheridan, Coleridge, Maria Edgeworth, and others. Lectures, recitations, and tests. *D, June 20-July 31.* 3 s.h. MR. PATTON

S203. Chaucer.—A survey of his life and principal poems, the development of his art, the sources and social background of his poetry. *A, June 20-July 31.* 3 s.h. MR. BAUM

S217. Spenser: "The Faerie Queene."—A study of the poem in detail and a survey of its interpretation from Warton's *Observations* to the present time. *C, June 20-July 31.* 3 s.h. MR. GILBERT

S218. Milton: "Paradise Lost," "Paradise Regained," and "Samson Agonistes."—Problems in their interpretation. *D, June 20-July 31.* 3 s.h. MR. GILBERT

S230. American Literature, 1800-1870: Middle Atlantic and Southern.—A survey of the principal writers of the period, including Poe, Irving, Cooper, Melville, and Simms. *A, C, August 1-22.* 3 s.h. MR. HUBBELL

S234. American Literature since 1870: Part II.—The local colorists, Moody, Garland, Dreiser, the Poetical Renaissance 1912. *C, June 20-July 31.* 3 s.h. MR. GOHDES

S308. Seminar in American Literature since 1870.—Thesis students should enroll in this seminar if the instructor approves. Non-thesis students will have unusual opportunity to work in the Trent Collection of Whitman Manuscripts. *B, June 20-July 31.* 3 to 6 s.h. MR. GOHDES

NOTE: THESIS SUPERVISION

In addition to S308, to which thesis students in American Literature may attach themselves, there will probably be offered thesis supervision in English Literature by Dr. Gilbert (Sixteenth and Seventeenth Centuries) and Dr. Baum (Victorian Period). Students interested should write for further information.

GEOGRAPHY

See courses S109 and S120 under Economics.

GERMAN

S3. Intermediate German.—Grammar and composition; dictation, spoken German; reading of narrative and dramatic prose. *A, C, May 30-June 19.* 3 s.h. MR. VOLLMER

S4. Intermediate German.—Grammar and composition; dictation, spoken German; reading of narrative and dramatic prose. *A, C, June 20-July 11.* 3 s.h. MR. VOLLMER

GOVERNMENT

See courses listed under Political Science.

HISTORY

S237. Social and Intellectual Development of the Old South.—Consideration will be given to conditions in the South in respect to slavery, agriculture, manufacturing, transportation, education, religion, science, and literature. *B, June 20-July 31.* **3 s.h.** MR. SYDNOR

S315. Seminar in Southern History.—Selected topics in the development of the Southern region, chosen year to year in different periods in its development. *D, June 20-July 31; B, D, August 1-21.* **3 s.h.**
MR. SYDNOR *(first term)*
MR. WOODY *(second term)*

HYGIENE AND PHYSICAL EDUCATION

S112. Personal and School Hygiene.—General, personal, and school hygiene with some instruction in anatomy and physiology; cause, transmission, and prevention of communicable disease; the more common defects of school children; schoolhouse sanitation; medical inspection, etc. *A, C, May 30-June 19.* **3 s.h.** MISS WEEKS

NOTE AS TO UNDERGRADUATE PHYSICAL EDUCATION

Undergraduate students in the Woman's College are required to have six semester hours of physical education, divided among their first three years in college. By request such of these courses as may enroll as many as twelve students before May 10 will be offered the first term of the Summer Session. Each course involves a special fee of $5.00 per student, and credit is limited to one semester hour per course. Beginning swimming, intermediate or advanced swimming, beginning tennis, and intermediate or advanced tennis are the courses most likely to be available. It is probable classes will begin May 30 and June 20, to run in each case every other day for six weeks.

MATHEMATICS

(On account of the absorption of the Department of Mathematics in the war effort, elementary mathematics and the sequence of graduate courses normally offered cannot be offered for the summer of 1944. It is fully intended, however, to restore normal offerings in this department—as well as in Chemistry, Physics, and other sciences—as soon as conditions permit.)

POLITICAL SCIENCE

S61. American Government and Politics.—A study of the American political system, emphasizing the organization and functioning of the national government. *C, May 30-July 10.* **3 s.h.** MR. RICHARDS

S62. American Government and Politics.—A study of the American political system, emphasizing the organization and functioning of state and local government. Continuation of S61. *D, May 30-July 10.* **3 s.h.**
MR. RANKIN

PSYCHOLOGY

S101. Introduction to Psychology: General Principles of Mental Activity and Growth.—Lectures, demonstrations, prescribed readings, and reports. *A, C, May 30-June 19.* **3 s.h.** MR. ZENER

RELIGION

S114. The Life and Teachings of Jesus.—This course considers the period in which Jesus lived, the record of his life, and the meaning of his teachings as recorded in the Synoptic Gospels. *A, June 20-July 31.* **3 s.h.**
MR. MYERS

S181. The Nature and Early Development of Religion.—Introduction to the early history of religion, the beliefs and practices of the more primitive peoples, and the religious life of the ancient world. *B, June 20-July 31.* **3 s.h.**
MR. CANNON

S319. The Life and Letters of Paul.—A study of the most influential leader in the early formative days of Christianity. The aim is to examine his personal and religious experience, the problems he encountered, the solution he offered, and the form of belief and practice he advocated. *B, C, May 30-June 19.* **3 s.h.** MR. CLARK

S320. Apocalyptic Literature.—Discussion of early Christian apocalyptic writings, with special attention to the Apocalypse of John. The origin, development, and significance of the apocalyptic idea in the Christian faith. *B, C, August 1-21.* **3 s.h.** MR. CLARK

S323. The Christian Conception of the Church.—A historical survey of the ways in which the Christian tradition has interpreted the idea of the church, followed by a critical analysis of the theological implications of such contemporary problems as church and state, church and culture, and the ecumenical movement. *C, June 20-July 31.* **3 s.h.** MR. OUTLER

S324. The Content of Christian Doctrine.—A synopsis and critical discussion of the cardinal problems involved in a systematic Christian theology. *A, June 20-July 31.* **3 s.h.** MR. OUTLER

S333. Mysticism and Devotion in Christian History.—A study of the renunciatory ideal and of spiritual practices in their relation to present problems. *B, June 20-July 31.* **3 s.h.** MR. PETRY

S334. Church Reformers and Christian Unity.—The work of great reformers in relation to ecclesiastical schism and the search for Christian unity through representative councils. *C, June 20-July 31.* **3 s.h.** MR. PETRY

SOCIOLOGY

Attention is called to the fact that Sociology S101 is a prerequisite to all other courses in the Department.

S101. General Sociology.—An introduction to the scientific study of social life; its origin, evolution, and organization as illustrated by the study of a number of concrete social problems. This course is prerequisite to all other courses in sociology. *C, June 20-July 31.* **3 s.h.** MR. THOMPSON

S220. Rural Sociology.—A study of the societies developed by people who settle the land and exploit it for a livelihood. The institutions peculiarly rural are the farm family, the peasant village, the ranch, and the plantation. Special attention is given to the plantation and the rural problems of the South. *B, June 20-July 31.* **3 s.h.** MR. THOMPSON

S236. Social Ethics.—An attempt to develop answers to such questions as: How can potential leaders discover and acquire the skills required for rendering their fullest service to their fellow men—particularly capacities for creative co-operation and insight? On what intellectually and scientifically sound basis can one formulate the fundamental policies of one's life? On what ultimate criteria are social policies to be based? *A, June 20-July 31.* **3 s.h.**
MR. HART

SPANISH

All Spanish courses, whether undergraduate or graduate, will be conducted in the "School of Spanish Studies" centered on the East Campus. Dormitory and boarding arrangements should be made with this in mind.

S1. Introductory Spanish.—Pronunciation; essentials of grammar; early reading of simple prose; dictation; emphasis on attainment of reading ability accompanied by constant use of the language as a means of instruction; abundant oral work to give the student a basic understanding of the spoken language. *A, C, June 20-July 11.* **3 s.h.** MRS. DILLINGHAM

S2. Introductory Spanish.—Continuation of course S1. *A, C, July 12-31.* **3 s.h.** MRS. DILLINGHAM

S3. Intermediate Spanish.—Systematic review of verbs, drill on idioms of high frequency, review of special grammatical difficulties; reading of graduated selections from modern prose authors; dictation and oral work. *C, June 20-July 31.* **3 s.h.** *Charla 11, Thursday, 7:00 P.M.*
MRS. CASTELLANO

S4. Intermediate Spanish.—Rapid reading and study of modern prose works, with emphasis on achievement of ability to read without translation. *A, June 20-July 31.* **3 s.h.** *Charla II, Thursday, 7:00 P.M.* MR. GIL

S65. Introduction to Modern Spanish Literature.—Study of representative masterpieces of nineteenth-century novel and drama; lectures; collateral reference readings and reports on literary backgrounds. One standard-length novel will be read outside of class. *C, June 20-July 31.* **3 s.h.**
MR. CASTELLANO

S68. Introduction to Spanish-American Literature.—Study of typical works in the field of the novel and lyric, chiefly of the modern period; lectures on literary, social, and cultural backgrounds and tendencies; collateral readings and reports. This course is offered as an alternate to Spanish 66 (Introduction to Classical Spanish Literature) and will be accepted in fulfillment of major and graduation requirements. *A, June 20-July 31.* **3 s.h.**
MR. BROWN

S175. War Spanish.—Training in active and practical use of the language; summary review of basic grammatical and syntactical difficulties; study of epistolary usage and forms; patterns and formulae of military communiques and official reports with abundant readings from current illustrative materials in journalistic accounts; basic patterns and terminology of Spanish radio broadcasts, etc. Prerequisite, if taken for credit: three years of college Spanish. *C, June 20-July 31.* **3 s.h.** *(Materials fee, $3.00.)* MR. BROWN
(This course is designed especially to furnish training for war work or for Government service in such agencies as the Bureau of Censorship or Cryptography.)

S254. Materials and Methods.—History of the teaching of Spanish; survey of methods and objectives; evaluation of representative texts; tests, word counts and auxiliary devices; the course of study. Prerequisites: Spanish 65-66 or equivalent. *A, June 20-July 31.* **3 s.h.** MR. CASTELLANO
(This course will be merged with Dr. Leavitt's "Teacher Contacts" in the "Workshop" during the week July 5-8.)

S276. Conferencias sobre literatura hispanoamericana.—Grandes autores magistrales de la literatura del siglo XIX; Bello, Sarmiento, Montalvo, Martí, Rodó, estudiados en su condición de maestros u orientadores de pueblos, y de acuerdo con la evolución histórico-literaria de los mismos y de Hispanoamérica en general. *C, June 20-July 31.* **3 s.h.** MR. LAZO

S370. Thesis Seminar.—Hours and credits to be arranged. Students desiring to enroll will report to the Director's Office, 115 Carr Building, June 21-24, between 9:30 and 11:00 A.M. MR. LUNDEBERG

S376. La novela española en la edad de oro.—Contenido: breve noticia acerca de los orígenes de la novela española. España durante los siglos XVI y XVII: Tipos sociales; corrientes literarias; tendencias de la novela. El cuento y la novela corta. Conferencias y estudio de obras representativas. *A, June 20-July 31.* **3 s.h.** MR. LAZO

NOTE: SPANISH "WORKSHOP"

In connection with the School of Spanish Studies, there will be conducted from June 26-July 22 a "South Atlantic Inter-American Teacher's Workshop" sponsored jointly by the Summer Session and the Office of The Coordinator of Inter-American Affairs, Department of State, Washington, D. C. Dr. Gil will serve as the Executive Secretary of the "Workshop," which will include four weeks of intensive work with native and American specialists on topics and problems of interest to teachers of Spanish and Spanish-American History.

Interesting lecturers for this intensive work include:
Professor Joaquín Nin-Culmel, Williams College.
Dr. Sturgis E. Leavitt, University of North Carolina;
Mrs. Rosario Novoa de Lazo, Universidad de la Habana.

For further information address, The Director of the Summer Session, Duke University.

ZOOLOGY

For admission to candidacy for a Master's degree in Zoology, students should have completed an undergraduate major in Zoology (courses in General Science and Botany are not counted as a part of a Zoology major). This normally amounts to about twenty-four semester hours, which should be distributed among the various fields of Zoology, and must include Vertebrate Zoology or Comparative Anatomy, Physiology, and Embryology, passed with creditable grades. A candidate should also have completed at least one year of Chemistry. Work for the degree will require eighteen hours in advanced courses in Zoology, and six hours in another department for a minor, in addition to a thesis. Before registration for a degree, students should confer with Dr. George T. Hargitt, Director of Graduate Studies for the Department. Students not candidates for a degree may take courses offered, if they have necessary prerequisites; but may not count them toward a degree until an undergraduate major has been completed.

S1. General Zoology.—A brief survey of the animal kingdom. *Lectures, quizzes, and laboratory, six hours daily, June 20-July 15.* **4 s.h.** *(Laboratory fee, $3.00.)* MR. GRAY, MR. BOOKHOUT, AND MRS. CONNER

S2. Animal Biology.—A study of the principles of biology as applied to animals. *Lectures, quizzes, and laboratory, six hours daily, July 16-August 10.* **4 s.h.** *(Laboratory fee, $3.00.)* MR. GRAY, MR. BOOKHOUT, AND MRS. CONNER

S206. Marine Zoology.—A study of animals that occur in the Beaufort region. A number of field trips will be made to a variety of habitats to study, collect, and classify animals in their natural environments. *June 27-August 8.* **6 s.h.** *Offered at Duke Marine Laboratory, Beaufort. (Laboratory fee, $6.00.)* MR. PEARSE

S219. Special Problems.—*Hours to be arranged. (Laboratory fee, $1.00 per credit hour.) Offered at Duke Marine Laboratory, Beaufort.* MR. PEARSE

S353. Research.—*Hours to be arranged. May 30-August 30. (Laboratory fee, $1.00 per credit hour.) Offered at Duke Marine Laboratory, Beaufort.*
MR. PEARSE

NOTE: BOTANY AT MARINE LABORATORY

In addition to the work in Zoology offered at the Marine Laboratory, problem work (Botany S225) and research in Botany (S359) will be offered at Beaufort in the period between May 30 and June 27. For information, write Dr. H. L. Blomquist, Duke University. Application should be made before May 15.

Specimen Application Blank

DIRECTOR OF THE SUMMER SESSION, COLLEGE STATION
DURHAM, NORTH CAROLINA

Date.....

Dear Sir:

Please make temporary reservation for me in the following courses described in your Summer Session Announcement:

.....

.....

.....

(Signed, full name)

Mr., Mrs., Miss.....

Street.....

Post Office Address.....

Be careful to give the following information:

Are you a teacher in the public schools?..... Total number years teaching experience..... Name and address of the school in which now teaching.....

What teacher's certificate do you hold?.....

State..... Serial number..... Year of expiration.....

Name of high school from which you were graduated.....

..... Year.....

College training completed:

(Please check proper amount in years): One ( ), Two ( ), Three ( ), Four ( ).

Name of last college attended..... Date.....

Graduate work (please check in years): One ( ), Two ( ), Three ( ).

Last graduate work in.....college or university.

College degrees held, if any, (please check): ( ) A.B., ( ) B.S., ( ) A.M., ( ) M.Ed., ( ) M.S.

If at present a college student, where?.....

What class?..... How many years of graduate work, if any, have you completed?..... In what department(s)?.....

.....

Do you wish room reserved?..... Alone?.....

First term?..... Second?..... Name and address of roommate preferred.....

.....

In graduate dormitory?..... Undergraduate?.....

N.B. Graduate dormitories are not open to undergraduates under thirty years of age. Room reservations of graduate students are tentative until the student has been accepted by the Graduate School. Students who wish a room reserved for the first term will remit full amount of room-rent; other students simply indicate whether they desire room in graduate or undergraduate dormitory. *The Summer Session reserves the right to cancel room reservation or registration for courses without assignment of reason.*

Note: Students who do not wish to submit transcripts of their previous college record, because desiring to transfer their summer session credits to some other institution, should answer the following:

Do you wish blank for statement from your college certifying your present class standing and requesting transfer of your summer session record?.....

VOLUME 16 April, 1944 NUMBER 4

BULLETIN OF DUKE UNIVERSITY

Undergraduate Instruction

(Trinity College, the Woman's College, and the College of Engineering)

1943-1944

ANNOUNCEMENTS FOR 1944-1945

PUBLISHED BY THE UNIVERSITY
DURHAM, NORTH CAROLINA

ANNUAL BULLETINS

For General Bulletin of Duke University, apply to *The Secretary,* Duke University, Durham, N. C.

For Bulletin of Undergraduate Instruction, apply to *The Secretary,* Duke University, Durham, N. C.

For Bulletin of The College of Engineering, apply to *The Secretary,* Duke University, Durham, N. C.

For Bulletin of The Graduate School of Arts and Sciences, apply to *The Dean of the Graduate School,* Duke University, Durham, N. C.

For Bulletin of The School of Law, apply to *The Dean of the School of Law,* Duke University, Durham, N. C.

For Bulletin of The School of Medicine, apply to *The Dean of the School of Medicine,* Duke University, Durham, N. C.

For Bulletin of The School of Nursing, apply to *The Dean of the School of Nursing,* Duke University, Durham, N. C.

For Bulletin of The Divinity School, apply to *The Dean of the Divinity School,* Duke University, Durham, N. C.

For Bulletin of The School of Forestry, apply to *The Dean of the School of Forestry,* Duke University, Durham, N. C.

For Bulletin of The Summer Session, apply to *The Director of the Summer Session,* Duke University, Durham, N. C.

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BULLETIN

OF

DUKE UNIVERSITY

UNDERGRADUATE INSTRUCTION

(Trinity College, the Woman's College, and the College of Engineering)

1943-1944

ANNOUNCEMENTS FOR 1944-1945

DURHAM, NORTH CAROLINA
1944

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COLLEGE CALENDARS

TRINITY COLLEGE AND THE COLLEGE OF ENGINEERING

July-October, 1944

July	1, 3-4	Saturday, Monday, Tuesday—Orientation and registration.
July	5	Wednesday, 8:00 A.M.—Instruction begins.
Aug.	25	Friday—Mid-semester grades due.
Oct.	18	Wednesday—Final examinations begin.
Oct.	24	Tuesday—Final examinations end.
Oct.	25	Wednesday—Recess begins.

November, 1944-February, 1945

Nov.	1-2	Wednesday, Thursday—Orientation and registration.
Nov.	3	Friday, 8:00 A.M.—Instruction begins.
Dec.	11	Monday—Duke University Day.
Dec.	16	Saturday—Mid-semester grades due.
Dec.	25-26	Monday, Tuesday—Christmas recess.
Dec.	27	Wednesday, 8:00 A.M.—Instruction resumed.
Feb.	16	Friday—Final examinations begin.
Feb.	22	Thursday—Final examinations end.
Feb.	23	Friday—Recess begins.

March-June, 1945

March	1-2	Thursday, Friday—Orientation and registration.
March	3	Saturday, 8:00 A.M.—Instruction begins.
April	24	Tuesday—Mid-semester grades due.
June	16	Saturday—Final examinations begin.
June	22	Friday—Final examinations end.
June	23	Saturday—Recess begins.

THE WOMAN'S COLLEGE

1944

Sept.	14	Thursday, 9:00 A.M.—Dormitories open to Freshmen.
Sept.	14	Thursday, 8:00 P.M.—Assembly for all entering Freshmen; Freshman Orientation Program begins.
Sept.	19	Tuesday—Registration and matriculation of new students with advanced standing.
Sept.	20	Wednesday, 12:15 P.M.—Formal Opening of the Woman's College.
Sept.	21	Thursday, 8:30 A.M.—Instruction begins.
Sept.	21	Thursday, 12:30 P.M.—Assembly for all students.
Nov.	30	Thursday—Thanksgiving Day: a holiday.
Dec.	11	Monday—Duke University Day.
Dec.	20	Wednesday, 1:00 P.M.—Christmas recess begins.

1945

Jan.	4	Thursday, 1:00 P.M.—Instruction is resumed.
Jan.	20	Saturday—Mid-year examinations begin.
Jan.	30	Tuesday—Mid-year examinations end.
Jan.	31	Wednesday—Last day for matriculation for second semester.
Feb.	1	Thursday—Second semester begins.
May	14	Monday—Final examinations for second semester begin.
May	24	Thursday—Final examinations end.
May	26	Saturday—Commencement Day.

May	30	Tuesday—Certain Summer Session classes begin.
June	19	Monday—Registration for first term of Summer Session.
June	20	Tuesday—Opening of Summer Session, first term.
July	31	Monday—First term of Summer Session ends. Registration for second term.
Aug.	1	Tuesday—Second term of Summer Session begins.
Sept.	9	Saturday—Second term of Summer Session ends.

1944

JANUARY

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APRIL

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1945

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FEBRUARY

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AUGUST

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NOVEMBER

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JUNE

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DECEMBER

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GOVERNING BODIES AND OFFICERS

EXECUTIVE COMMITTEE OF THE UNIVERSITY

(Consisting of three members from the University Trustees, three from the Endowment Trustees, and the President of the University.)

	Year of Election		
J. F. Bruton, Chairman	1918	Wilson,	N. C.
G. G. Allen	1923	New York,	N. Y.
M. E. Newsom	1917	Durham,	N. C.
W. N. Reynolds	1933	Winston-Salem,	N. C.
J. H. Separk	1929	Gastonia,	N. C.
W. R. Perkins	1937	New York,	N. Y.
R. L. Flowers	1923	Durham,	N. C.

UNIVERSITY TRUSTEES

Term Expires December 31, 1949

G. G. Allen	1923	New York,	N. Y.
J. H. Barnhardt	1918	Shelby,	N. C.
James A. Bell, Vice-Chairman	1920	Charlotte,	N. C.
R. G. Cherry	1934	Gastonia,	N. C.
R. L. Flowers	1927	Durham,	N. C.
J. P. Frizzelle	1937	Snow Hill,	N. C.
Thomas M. Grant	1933	Rocky Mount,	N. C.
J. R. Smith	1934	Mount Airy,	N. C.

FROM THE ALUMNI

B. F. Few	1941	New York,	N. Y.
C. F. Lambeth	1915	Thomasville,	N. C.
H. B. Porter	1941	Wilson,	N. C.
C. K. Proctor	1935	Oxford,	N. C.

Term Expires December 31, 1945

E. S. Bowling	1939	New York,	N. Y.
H. C. Doss	1943	Detroit,	Mich.
G. M. Ivey	1943	Charlotte,	N. C.
B. C. Nalle	1941	Charlotte,	N. C.
M. E. Newsom	1917	Durham,	N. C.
W. W. Peele	1921	Richmond,	Va.
W. R. Perkins	1924	New York,	N. Y.
B. S. Womble	1915	Winston-Salem,	N. C.

FROM THE ALUMNI

H. R. Dwire, Ass't. Rec. Secretary	1931	Durham,	N. C.
N. E. Edgerton	1941	Raleigh,	N. C.
R. A. Mayer	1897	Charlotte,	N. C.
W. A. Stanbury	1933	Winston-Salem,	N. C.

Term Expires December 31, 1947

J. F. BRUTON, Chairman	1900	Wilson,	N. C.
JAMES B. CRAVEN	1941	Charlotte,	N. C.
D. S. ELIAS	1929	Asheville,	N. C.
P. H. HANES	1912	Winston-Salem,	N. C.
J. L. HORNE, JR.	1934	Rocky Mount,	N. C.
B. E. JORDAN	1943	Saxapahaw,	N. C.
S. B. TURRENTINE	1893	Greensboro,	N. C.
EARLE W. WEBB	1933	New York,	N. Y.

FROM THE ALUMNI

S. S. ALDERMAN	1934	Washington,	D. C.
W. N. REYNOLDS	1927	Winston-Salem,	N. C.
J. H. SEPARK	1916	Gastonia,	N. C.
WILLIS SMITH	1929	Raleigh,	N. C.

ENDOWMENT TRUSTEES

G. G. ALLEN, Chairman	1924	New York,	N. Y.
W. R. PERKINS, Vice-Chairman	1924	New York,	N. Y.
N. A. COCKE, Vice-Chairman	1924	Charlotte,	N. C.
A. H. SANDS, JR., Secretary	1924	New York,	N. Y.
E. C. MARSHALL, Assistant Secretary	1924	Charlotte,	N. C.
W. C. PARKER, Treasurer	1924	New York,	N. Y.
W. B. BELL	1924	New York,	N. Y.
C. I. BURKHOLDER	1924	Charlotte,	N. C.
MRS. DORIS DUKE CROMWELL	1933	New York,	N. Y.
MRS. J. B. DUKE	1924	New York,	N. Y.
R. L. FLOWERS	1926	Durham,	N. C.
B. E. GEER	1924	Greenville,	S. C.
W. S. RANKIN	1925	Charlotte,	N. C.
W. N. REYNOLDS	1931	Winston-Salem,	N. C.
W. S. O'B. ROBINSON, JR.	1932	Charlotte,	N. C.

COMMITTEES OF THE UNIVERSITY TRUSTEES

Buildings and Grounds: J. R. SMITH, CHERRY, BARNHARDT.

Business Administration of the University: HANES, ELIAS, BOWLING, DOSS.

Colleges: ALDERMAN, HORNE, IVEY.

Divinity School: PEELE, GRANT, PORTER, EDGERTON.

School of Forestry: DWIRE, NEWSOM, FEW.

Graduate School: WEBB, TURRENTINE, FLOWERS, CRAVEN.

Law School: WILLIS SMITH, WOMBLE, CHERRY, FRIZZELLE.

Library: STANBURY, HANES, LAMBETH.

Medical School and Hospital: MAYER, PROCTOR, NALLE.

Physical Education and Intercollegiate Athletics: SEPARK, J. R. SMITH, PROCTOR, JORDAN.

OFFICERS OF ADMINISTRATION

GENERAL ADMINISTRATION

FLOWERS, ROBERT LEE, A.M., LL.D.
President of the University — West Campus

WANNAMAKER, WILLIAM HANE, A.B., A.M., Litt.D.
Vice-President and Dean of the University — West Campus

DWIRE, HENRY RUDOLPH, A.B., A.M., LL.D.
Vice-President and Director of Public Relations and Alumni Affairs — 403 West Chapel Hill Street

*BROWN, FRANK CLYDE, A.B., A.M., Ph.D.
Comptroller — 410 Buchanan Road

MARKHAM, CHARLES BLACKWELL, A.B., A.M.
Treasurer of the University — 204 Dillard Street

BROWER, ALFRED SMITH, A.B.
Administrative Assistant — 518 Morehead Avenue

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Secretary of the University — 813 Vickers Avenue

BUSINESS ADMINISTRATION

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Treasurer of the University — 204 Dillard Street

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Secretary of the University — 813 Vickers Avenue

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†WEATHERSPOON, EVERETT BROADUS, A.B.
Assistant Secretary — 125 Pinecrest Road

TYREE, WILLIAM ALLEN, A.B.
Director in the Business Division — 610 Buchanan Road

WHITFORD, WILLIAM EDWARD, A.B.
Director in the Business Division — 804 Third Street

THOMPSON, JAMES EDWARD — 504 East Forest Hills Boulevard
Manager, the Duke University Dining Halls

†SAWYER, OTIS, A.B.
Purchasing Agent, Duke University — 2010 Club Boulevard

MOORE, JOHN MEREDITH, A.B.
Manager, the Duke University Stores — Prince Street

* Died, June 3, 1943.
† On active duty, U. S. Army.

*UPCHURCH, WALTER MCGOWAN, JR., A.B., LL.B.
Financial Adviser, Student Activities — Johnson Apartments

BOY, CARL A.
Superintendent of Maintenance, West Campus — 2214 Erwin Road

GIFT, JOHN C.
Superintendent of Maintenance, East Campus — 811 Fifth Street

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PUBLIC RELATIONS AND ALUMNI AFFAIRS

DWIRE, HENRY RUDOLPH, A.B., A.M., LL.D. — 403 West Chapel Hill Street
Director of Public Relations and Alumni Affairs

DUKES, CHARLES AUBREY, A.B.
Assistant Director — 1309 Oakland Avenue

GARRARD, ANNE, A.B., A.M.
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JACKSON, DAVID KELLY, A.B., A.M.
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*MANN, GLENN EDWARD, A.B.
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*UPCHURCH, WALTER MCGOWAN, JR., A.B., LL.B.
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WILKINSON, ALBERT ALEXANDER, A.B.
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EDUCATIONAL ADMINISTRATION

WANNAMAKER, WILLIAM HANE, A.B., A.M., Litt.D.
Dean of the University — West Campus

UNDERGRADUATE COLLEGES

HERRING, HERBERT JAMES, A.B., A.M.
Dean of Trinity College — Myrtle Drive, West Campus

BALDWIN, ALICE MARY, A.B., A.M., Ph.D.
Dean of the Woman's College — East Campus

HALL, WILLIAM HOLLAND, A.B., A.M., B.C.E., M.S.C.E.
Dean of the College of Engineering — 922 Urban Avenue

MANCHESTER, ALAN KREBS, A.B., A.M., Ph.D.
Dean of Freshmen, Trinity College — Myrtle Drive, West Campus

SMITH, MRS. RUTH SLACK, A.B., A.M. — Faculty Apartments, East Campus
Associate Dean of Undergradaute Instruction, Woman's College

* On active duty, U. S. Navy.

PERSONS, MRS. ELIZABETH ANDERSON, A.B., A.M. 612 Swift Avenue
Dean of Freshmen, the Woman's College
Secretary of the Committee on Admissions of the Woman's College

*CLEAVELAND, FREDERIC NEILL, A.B., A.M.
Assistant Dean of Men East Campus

WATSON, KARL BRANTLEY, A.B., B.S., M.A., Ph.D.
Counselor in Testing and Guidance 1102 Virginia Avenue

GRADUATE AND PROFESSIONAL SCHOOLS

HOOVER, CALVIN BRYCE, A.B., Ph.D., Litt.D. 1702 Duke University Road
Dean of the Graduate School of Arts and Sciences

ROBERT, JOSEPH CLARKE, A.B., A.M., Ph.D.
Assistant Dean of the Graduate School 1102 B Street

GARBER, PAUL NEFF, A.B., A.M., Ph.D.
Dean of the Divinity School Myrtle Drive, West Campus

RUSSELL, ELBERT, A.B., A.M., Ph.D., Litt.D.
Dean Emeritus of the Divinity School 804 Fourth Street

HORACK, HUGO CLAUDE, Ph.B., LL.B., LL.D.
Dean of the School of Law Myrtle Drive, West Campus

DAVISON, WILBURT CORNELL, A.B., B.A., B.Sc., A.M., D.Sc., M.D.
Dean of the School of Medicine Hope Valley

PINKERTON, MARGARET ISABEL, R.N., B.S.
Dean of the School of Nursing 412 Swift Avenue

KORSTIAN, CLARENCE FERDINAND, B.S.F., M.F., M.A., Ph.D.
Dean of the School of Forestry 1718 Duke University Road

HOLTON, HOLLAND, A.B., J.D.
Director of the Summer Session 809 Watts Street

COLEMAN, MARGARET, A.B., A.M.
Recorder, Trinity College 918 Urban Avenue

KENDALL, HELEN MILDRED, A.B.
Registrar, School of Law 8 Aycock Apartments

SEABOLT, LOUISE, A.B., A.M.
Recorder, Woman's College Faculty Apartments

INSTRUCTIONAL STAFF

This alphabetical list includes all members of the various faculties of the University. The date denotes the first year of service.

†ADAMS, DONALD KEITH, (1931) A.B., M.A., Ph.D.
Associate Professor of Psychology Cornwallis Road

ADDOMS, RUTH MARGERY, (1930) B.A., M.A., Ph.D.
Associate Professor of Botany 1003 Lamond Avenue

*ALEXANDER, LEO, (1941) A.B., M.D.
Associate Professor of Neuropsychiatry 2122 Myrtle Drive

* On active duty, U. S. Army.
† Absent on leave, Government Service, 1943-1944.

ALTER, ROBERT LEONHARDT, (1939) M.D.
Instructor in Obstetrics and Gynecology — Duke Hospital

ALTVATER, F. VERNON, (1930) A.B., A.M.
Associate in Hospital Administration — Route 2, Hillsboro, N. C.

ALYEA, EDWIN PASCAL, (1930) S.B., M.D.
Clinical Professor of Urology — Hope Valley

*ANDERSON, LEWIS EDWARD, (1936) B.S., A.M., Ph.D.
Assistant Professor of Botany — 305 Frances Street

ANDERSON, WILLIAM BANKS, (1930) A.B., M.D. — 503 E. Forest Hills Blvd.
Associate Professor of Surgery in charge of Ophthalmology

ARENA, JAY MORRIS, (1933) B.S., M.D.
Assistant Professor of Pediatrics — 2032 Club Boulevard

ATWOOD, THEODORE W., (1934) A.B., D.M.D.
Associate in Dentistry — Allenton Apartments

AVERILL, LOUISE, (1943) B.A., M.A.
Instructor in Art — 1507 W. Pettigrew Street

AYCOCK, THOMAS MALCOLM, (1937) B.S., M.S.
Assistant Professor of Physical Education — 1404 Alabama Avenue

BADENOCH, ERNEST L., (1943) B.S., M.A.
Instructor in Speech — Duke University

BAKER, LENOX DIAL, (1937) M.D.
Associate Professor of Surgery in charge of Orthopaedics — Hope Valley

BAKER, MAURY DAVIDSON, JR., (1943) A.B., A.M.
Instructor in Engineering Drawing — Duke University

BAKER, ROGER DENIO, (1930) A.B., M.D. — 1111 Watts Street
Associate Professor of Pathology in charge of Surgical Pathology

BALDWIN, ALICE MARY, (1923) A.B., A.M., Ph.D.
Professor of History and Dean of the Woman's College — East Campus

BARKER, RUTH ELIZABETH, (1940) A.B., M.S.
Instructor in Medical Social Service — 1507 W. Pettigrew Street

BASS, ARNOLD MARVIN, (1943) B.S., M.A.
Instructor in Physics — Duke University

BAUM, PAULL FRANKLIN, (1922) A.B., A.M., Ph.D.
Professor of English — 112 Pinecrest Road

BAYLIN, GEORGE JAY, (1939) A.B., M.D.
Assistant Professor of Radiology — 2260 Cranford Road

BEAL, JAMES ALLEN, (1939) B.S., M.S., Ph.D.
Professor of Forest Entomology — 2232 Cranford Road

BEARD, JOSEPH W., (1937) B.S., M.D. — Hillsboro, N. C.
Associate Professor of Surgery in charge of Experimental Surgery

BERNHEIM, FREDERICK, (1930) A.B., Ph.D. — Woodridge Drive, Rockwood
Associate Professor of Physiology and Pharmacology

BERNHEIM, MARY LILIAS CHRISTIAN, MRS., (1930) B.A., M.A., Ph.D.
Assistant Professor of Biochemistry — Woodridge Drive, Rockwood

BERRY, EDWARD WILLARD, (1936) A.B., Ph.D.
Associate Professor of Geology — 1003 N. Gregson Street

* On active duty, U. S. Navy.

*BERRY, THOMAS SENIOR, (1935) S.B., M.A., Ph.D.
Instructor in Economics 100 Vineyard Street

BEVINGTON, HELEN SMITH, MRS., (1943) Ph.B., M.A.
Instructor (Part-time) in English 2608 Nation Avenue

BEVINGTON, MERLE MOWBRAY, (1942) A.B., M.A., Ph.D.
Assistant Professor of English 2608 Nation Avenue

BIGELOW, LUCIUS AURELIUS, (1929) S.B., Ph.D.
Professor of Chemistry 131 Pinecrest Road

BILLIG, OTTO, (1941) M.D.
Associate in Neuropsychiatry Duke Hospital

BIRD, HAROLD CRUSIUS, (1926) Ph.B., C.E.
Professor of Civil Engineering 1209 Virginia Avenue

BLACK, MARTIN LEE, JR., (1930) A.B., M.B.A., C.P.A.
Associate Professor of Accounting 135 Pinecrest Road

BLACKBURN, WILLIAM MAXWELL, (1926) A.B., B.A., M.A., Ph.D.
Associate Professor of English 715 Anderson Street

BLOMQUIST, HUGO LEANDER, (1920) B.S., Ph.D.
Professor of Botany 922 Demerius Street

BLUM, JAY, (1942) A.B., M.A., Ph.D.
Visiting Assistant Professor of Economics 1521 Hermitage Court

†BOAS, RALPH PHILIP, JR., (1939) A.B., Ph.D.
Instructor in Mathematics 2707 Legion Avenue

BOLICH, WILLIAM BRYAN, (1927) A.B., B.A. (Juris.), M.A., B.C.L.
Professor of Law Hope Valley

BONNER, LYMAN GAYLORD, (1937) A.B., Ph.D.
Assistant Professor of Physics 2708 Nation Avenue

BOOKHOUT, CAZLYN GREEN, (1935) A.B., A.M., Ph.D.
Assistant Professor of Zoology 1307 Alabama Avenue

‡BOUTON, MARGARET, (1942) A.B., A.M.
Instructor in Fine Arts 208 Watts Street

BRADSHER, CHARLES KILGO, (1939) A.B., M.A., Ph.D.
Instructor in Chemistry 2302 Elder Street

BRADWAY, JOHN SAEGER, (1931) A.B., A.M., LL.B.
Professor of Law 2621 Stuart Drive

BRANSCOMB, BENNETT HARVIE, (1925) A.B., B.A., M.A., Ph.D., Litt.D.
Professor of New Testament Language and Literature Chelsea Circle, Hope Valley

BREWSTER, LAWRENCE FAY, (1942) A.B., A.M., Ph.D.
Instructor in History 910 Monmouth Avenue

BRICE, ASHBEL GREEN, (1939) A.B., A.M.
Instructor in English 814 Sixth Street

BRIDGERS, FURMAN ANDERSON, (1926) A.B., A.M.
Assistant Professor of Romance Languages 1325 Arnette Avenue

BROADHEAD, EDWARD HALL, (1933) A.B., A.M., M.M.
Instructor in Music 1015 Dacian Avenue

* Absent on leave, Government Service, 1943-1944.
† Resigned, May 9, 1943.
‡ Resigned, June 30, 1943.

BROWN, FRANCES, (1931) A.B., Ph.D.
Assistant Professor of Chemistry — 205 Jones Street

*BROWN, FRANK CLYDE, (1909) A.B., A.M., Ph.D.
Professor of English — 410 Buchanan Road

BROWNELL, WILLIAM ARTHUR, (1930) A.B., A.M., Ph.D., LL.D.
Professor of Educational Psychology — Hope Valley

†BRUINSMA, HENRY A., (1938) B.M., M.M.
Assistant Professor of Music — Duke University

BRYAN, WILLIAM ALFRED, (1944) A.B., A.M.
Instructor (March 1-June 30, 1944) in English — Duke University

BRYSON, THADDEUS DILLARD, (1928) LL.D.
Professor of Law — Hope Valley

CALLAWAY, JASPER LAMAR, (1937) B.S., M.D.
Assistant Professor of Medicine, in charge of Dermatology and Syphilology — 828 Anderson Street

CAMERON, EDMUND MCCULLOUGH, (1926) A.B.
Acting Director of Physical Education, Trinity College — Hope Valley

CANNON, JAMES, III, (1919) A.B., A.M., Th.B., Th.M., D.D.
Ivey Professor of History of Religion and Missions — 910 Arnette Avenue

CARLITZ, LEONARD, (1932) A.B., A.M., Ph.D.
Associate Professor of Mathematics — 2303 Cranford Road

CARPENTER, DAVID WILLIAMS, (1929) A.B., A.M., Ph.D.
Assistant Professor of Physics — 137 Pinecrest Road

CARR, JOHN WINDER, JR., (1926) A.B., A.M., Ph.D.
Professor of Education — 926 Monmouth Avenue

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Professor of History — University Apartments

CARROLL, R. CHARMAN, (1943) A.B., M.D.
Associate in Psychiatry — Duke Hospital

CARROLL, ROBERT SPROUL, (1941) M.D.
Lecturer in Neuropsychiatry — Asheville, N. C.

CARTER, BAYARD, (1931) A.B., B.A., M.A., M.D.
Professor of Obstetrics and Gynecology — Myrtle Drive, West Campus

CATTELL, RAYMOND BERNARD, (1944) B.S., Ph.D.
Visiting Associate Professor of Psychology — Duke University

**CAVERS, DAVID FARQUHAR, (1931) B.S., LL.B.
Professor of Law — Sylvan Road

CAYER, DAVID, (1939) B.A., M.D.
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CHILDS, BENJAMIN GUY, (1924) B.A., M.A.
Professor of Education — 1019 West Markham Avenue

CLARK, ELON HENRY, (1934) — 2802 Legion Avenue
Instructor in Art and Photography as Applied to Medicine

CLARK, KENNETH WILLIS, (1931) A.B., B.D., Ph.D. — 1308 Markham Avenue
Associate Professor of New Testament Language and Literature

* Died, June 3, 1943.
† On active duty, U. S. Army.
‡ Absent on leave, Government Service, 1943-1944.
** Absent on leave, Government Service.

CLAY, ALFRED THOMAS, (1941) B.S., A.M., Captain, U. S. Navy, Retired
Professor of Naval Science and Tactics — 912 Shepherd Street

CLYDE, PAUL HIBBERT, (1937) A.B., A.M., Ph.D.
Professor of History — Faculty Apartments

*COILE, THEODORE STANLEY, (1935) B.S.F., M.F., Ph.D.
Associate Professor of Forest Soils — Duke University

†COLE, ROBERT TAYLOR, (1935) A.B., A.M., Ph.D.
Associate Professor of Political Science — Duke University

CONANT, NORMAN FRANCIS, (1935) B.S., A.M., Ph.D.
Assistant Professor of Bacteriology and Mycology — Tuscaloosa Forest

CONE, BONNIE ETHEL, (1943) B.S., A.M.
Instructor in Mathematics — 407 Watts Street

CONSTANT, FRANK WOODBRIDGE, (1930) B.S., Ph.D.
Associate Professor of Physics — 2701 Legion Avenue

COOKE, THOMAS CHEATHAM, (1943)
Instructor in Mechanical Engineering — 2209 Wilson Street

COOLIDGE, THOMAS BUCKINGHAM, (1935) B.A., Ph.D., M.D.
Assistant Professor of Biochemistry — 312 Buchanan Road

COOPER, ALBERT DERWIN, (1934) A.B., M.D.
Instructor in Medicine — 1006 Dacian Avenue

COWPER, FREDERICK AUGUSTUS GRANT, (1918) A.B., A.M., Ph.D.
Professor of Romance Languages — 1017 Dacian Avenue

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Technical Instructor in Bacteriology — 1207 Alabama Avenue

‡CRAIG, ROBERT LAWRENCE, (1939) B.A., M.D.
Instructor in Neurology — 919 Monmouth Avenue

CRAVEN, ERLE BULLA, JR., (1937) A.B., M.D.
Associate in Medicine — Winston-Salem, N. C.

**CRISPELL, RAYMOND S., (1933) A.B., M.D.
Associate Professor of Neuropsychiatry — Myrtle Drive, West Campus

CRUM, MASON, (1930) A.B., Ph.D.
Assistant Professor of Biblical Literature — 912 Anderson Street

***CUNNINGHAM, BERT, (1916) B.S., M.S., Ph.D.
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CUYLER, W. KENNETH, (1938) B.A., M.A., Ph.D. — Pickett Road
Research Instructor in Obstetrics and Gynecologic Laboratory Technics

DAI, BINGHAM, (1943) A.B., M.A., Ph.D.
Lecturer in Psychiatry — 2308 Erwin Road

DANN, WILLIAM JOHN, (1934) B.S., Ph.D.
Associate Professor of Physiology and Nutrition — 113 Pinecrest Road

DAVIS, CLARENCE DANIEL, (1943) S.B., M.D.
Instructor in Endocrinology — 2302 Erwin Road

DAVIS, GIFFORD, (1930) A.B., A.M., Ph.D.
Assistant Professor of Romance Languages — 2015 Wa Wa Avenue

* On active duty, U. S. Marine Corps.
† Absent on leave, Government Service, 1943-1944.
‡ On active duty, U. S. Army.
** On active duty, U. S. Navy.
*** Died, September 27, 1943.

DAVISON, WILBURT CORNELL, (1927) A.B., B.A., B.Sc., M.A., D.Sc., M.D.
Professor of Pediatrics and Dean of the School of Medicine Hope Valley

DAWSON, PERCY MILLARD, (1943) A.B., M.D.
Visiting Professor of Physiology Duke Hospital

DEES, JOHN ESSARY, (1939) B.S., M.D.
Assistant Professor of Urology 1012 Green Street

DEES, SUSAN COONS, (1939) A.B., M.S., M.D.
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*DELAPLANE, WALTER HAROLD, (1934) A.B., A.M., Ph.D.
Assistant Professor of Economics Duke University

DE VYVER, FRANK TRAVER, (1935) A.B., A.M., Ph.D.
Professor of Economics 8 Sylvan Road

DICK, MACDONALD, (1932) B.A., M.A., M.D.
Assistant Professor of Physiology and Pharmacology and Associate in Medicine Hope Valley Road

DILLINGHAM, MARJORIE CARTER, MRS., (1941) A.B.
Instructor in Spanish 801 Third Street

DOW, MARIE, MME., (1934) L. ès L., M.A.
Instructor (Part-time) in French 1411 Arcadia Street

DOW, NEAL, (1934) A.B., M.A., Ph.D.
Assistant Professor of Romance Languages 1411 Arcadia Street

DRESSEL, FRANCIS GEORGE, (1929) B.S., M.S., Ph.D.
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DRUMMOND, VIVIAN MOIZE, MRS., (1943) A.B.
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DUBIN, ISADORE NATHAN, (1942) B.Sc., M.D., C.M.
Associate in Pathology 1411 Sixth Street

DUKE, KENNETH LINDSAY, (1940) A.B., Ph.D.
Associate in Anatomy 701 Club Boulevard

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EDGERTON, FRANK N., (1943) A.B., A.M.
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EDWARDS, CHARLES WILLIAM, (1898) A.B., A.M., M.S.
Professor of Physics 406 Buchanan Road

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† Resigned, June 30, 1943.
‡ On active duty, U. S. Navy.

EITEMAN, WILFORD J., (1937) A.B., A.M., Ph.D.
Assistant Professor of Economics 126 Pinecrest Road

ELLIOTT, WILLIAM WHITFIELD, (1925) B.A., M.A., Ph.D.
Professor of Mathematics 1404 Arnette Avenue

ELLWOOD, CHARLES ABRAM, (1930) Ph.B., Ph.D., LL.D.
Professor of Sociology Pinecrest Road

EPPERSON, JESSE HARRISON, (1930) B.S.
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Associate in Pathology University Apartments

†EVANS, FRANCIS GAYNOR, (1941) A.B., A.M., Ph.D.
Instructor in Zoology 11 Powe Apartments

EVERETT, JOHN WENDELL, (1932) A.B., Ph.D.
Assistant Professor of Anatomy 2605 University Drive

FEARING, JOHN MELLICHAMP, (1942) B.S., M.D.
Instructor in Neuropsychiatry Duke Hospital

*FERGUSON, ARTHUR BOWLES, (1939) A.B., Ph.D.
Instructor in History Duke University

FERGUSON, GEORGE BURTON, (1937) M.Sc. (Med.), M.D.
Associate in Bronchoscopy Beverly Apartments

FITZGERALD, WILLIAM STONE, (1935) A.B., A.M.
Instructor in English 3 Powe Apartments, 603 Watts Street

FLEMING, WILLIAM LE ROY, (1939) B.A., M.S., M.D.
Lecturer in Preventive Medicine and Public Health Duke Hospital

FORBUS, WILEY DAVIS, (1930) A.B., M.D.
Professor of Pathology Hope Valley

‡FOX, HERBERT JUNIUS, (1940) M.D.
Instructor in Medicine Indian Trail

GARBER, PAUL NEFF, (1924) A.B., A.M., Ph.D. Myrtle Drive, West Campus
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Associate Professor of Surgery Hope Valley

*GARRARD, ROBERT L., (1941) A.B., M.S., B.S., M.D.
Instructor in Neuropsychiatry 1000 Hale Street

GATES, ARTHUR MATHEWS, (1909) A.B., A.M., Ph.D.
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GERGEN, JOHN JAY, (1936) A.B., M.A., Ph.D.
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‡GIBSON, WILLIAM MARION, (1934) A.B., A.M., Ph.D.
Assistant Professor of Political Science Duke University

GILBERT, ALLAN, (1920) B.A., A.M., Ph.D.
Professor of English 516 Carolina Circle

GILBERT, GEORGE GAYLORD, (1939) B.S., M.D.
Instructor in Urology University Apartments

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† Resigned, June 30, 1943.
‡ On active duty, U. S. Navy.

GILBERT, KATHARINE EVERETT, (1930) A.B., A.M., Ph.D., Litt.D.
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GLASSON, WILLIAM HENRY, (1902) Ph.B., Ph.D., LL.D. — 710 Buchanan Road
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GOLDIN, JUDAH, (1943) B.S., A.M., D.H.L.
Lecturer on Jewish Literature and History — 1200 Markham Avenue

GOODMAN, ERASTUS GENAIR, JR., (1940) M.D.
Instructor in Hematology and Allergy — Duke Hospital

GRAHAM, WILLIAM ALEXANDER, (1939) A.B., M.D.
Instructor in Obstetrics and Gynecology — Beverly Apartments

GRAVES, ROBERT WILLIAMS, (1936) B.S., M.A., M.D.
Assistant Professor of Neurology — Cornwallis Road

GRAY, IRVING EMERY, (1930) B.S., M.S., Ph.D.
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GREENEWALD, HERBERT, (1943) B.S.
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GREENHILL, MAURICE H., (1940) A.B., M.D.
Associate Professor of Neuropsychiatry — Hope Valley

GREGORY, PAUL M., (1942) A.B., M.A., Ph.D.
Visiting Instructor in Economics — 1018 Monmouth Avenue

GRIMSON, KEITH S., (1942) B.A., B.S., M.D.
Associate in Surgery — 213 Cornwallis Road

GROSS, PAUL MAGNUS, (1919) B.S., A.M., Ph.D.
William Howell Pegram Professor of Chemistry — Hope Valley

GROUT, JULIA REBECCA, (1924) A.B., M.S. — 207 Jones Street
Assistant Professor of Physical Education, Woman's College

HACKNEY, GEORGE F., (1943) B.S.
Instructor in Engineering Drawing — 1012 Knox Street

HAINES, HOWARD N., (1943) B.S.
Instructor in Engineering Drawing — 2307 Club Blvd.

‡HALL, FRANK GREGORY, (1926) A.B., A.M., Ph.D.
Professor of Zoology — 122 Pinecrest Road

HALL, LOUISE, (1931) B.A., S.B. in Architecture, Brevet d'Art de la Sorbonne
Assistant Professor of Fine Arts — 210 Faculty Apartments

‡HALL, SNOWDEN COWMAN, (1937) A.B., M.D.
Associate in Medicine — Danville, Va.

HALL, WILLIAM HOLLAND, (1915) A.B., A.M., B.C.E., M.S.C.E.
Professor of Engineering and Dean of the College of Engineering — 922 Urban Avenue

* Resigned, February 29, 1944.
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‡ On active duty, U. S. Army.

HALLOWELL, JOHN HAMILTON, (1942) A.B., A.M., Ph.D.
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HAMBLEN, EDWIN CROWELL, (1931) B.S., M.D. 810 Forest Hills Blvd.
Associate Professor of Obstetrics, Gynecology and Endocrinology

HAMILTON, EARL JEFFERSON, (1927) B.S., A.M., Ph.D.
Professor of Economics 1015 Demerius Street

HAMILTON, WILLIAM BASKERVILLE, JR., (1936) A.B., A.M., Ph.D.
Assistant Professor of History 202 Faculty Apartments

HANDLER, PHILIP, (1939) B.S., M.S., Ph.D.
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HANES, FREDERIC MOIR, (1930) A.B., A.M., M.D.
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HANLON, JOHN J., (1942) B.S., M.S., M.D., M.P.H.
Lecturer in Preventive Medicine and Public Health Duke Hospital

HANSEN-PRÜSS, OSCAR CARL EDVARD, (1930) A.B., M.D.
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3 Surry Road, Hope Valley

HARGITT, GEORGE THOMAS, (1930) Ph.B., A.M., Ph.D., Sc.D.
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*HARRAR, ELWOOD SCOTT, (1936) B.S., M.S., Ph.D.
Associate Professor of Wood Technology 2228 Cranford Road

†HARRIS, JEROME SYLVAN, (1936) A.B., M.D.
Assistant Professor of Pediatrics and Biochemistry Duke Hospital

HART, DERYL, (1930) A.B., A.M., M.D.
Professor of Surgery Duke University Road and Highway 751

HART, HORNELL NORRIS, (1938) A.B., M.A., Ph.D.
Professor of Sociology 804 Fourth Street

HARWELL, GEORGE CORBIN, (1935) A.B., A.M., Ph.D.
Instructor in English 2016 Sunset Avenue

‡HASBROUCK, FRANCIS MAHLON, (1935) A.B., Ph.D.
Assistant Professor of Romance Languages 1005 Homer Street

HATLEY, CHARLES CLEVELAND, (1917) A.B., A.M., Ph.D.
Professor of Physics 708 Buchanan Road

HAUSER, CHARLES ROY, (1929) B.S., M.S., Ph.D.
Associate Professor of Chemistry 1020 Rose Hill Avenue

**HEBB, MALCOLM HAYDEN, (1938) A.B., Ph.D.
Instructor in Physics 137 Pinecrest Road

HEMPHILL, JAMES EUGENE, (1940) B.A., M.D.
Associate in Radiology 2109 Pershing Street

HENDRIX, JAMES PAISLEY, (1938) B.S., M.A., M.D.
Associate in Medicine 144 Pinecrest Road

HERRING, HERBERT JAMES, (1924) A.B., A.M. Myrtle Drive, West Campus
Assistant Professor in Speech and Dean of Trinity College.

HESSER, FREDERICK HARRISON, (1941) A.B., M.D.
Instructor in Neuropsychiatry 2921 Horton Road

* Absent on leave, War Industry Service.
† On active duty, U. S. Army.
‡ Died, October 29, 1943.
** Absent on leave, Government Service, second semester, 1943-1944.

HETHERINGTON, DUNCAN CHARTERIS, (1930) A.B., M.A., Ph.D., M.D.
Associate Professor of Anatomy Hope Valley

HICKMAN, FRANKLIN SIMPSON, (1927) A.B., S.T.B., A.M., Ph.D.
Professor of Preaching and the Psychology of Religion and Dean of the Chapel 823 Buchanan Road

HICKSON, ARTHUR OWEN, (1929) A.B., A.M., Ph.D.
Assistant Professor of Mathematics 2712 Legion Avenue

HILL, DOUGLAS, (1931) A.B., M.A., Ph.D.
Assistant Professor of Chemistry Dixon Road

HINTON, WILLIAM ARTHUR, (1942) B.S. in M.E., M.S. in M.E.
Assistant Professor of Mechanical Engineering 1110 Oval Drive

HOBBS, MARCUS EDWIN, (1935) A.B., A.M., Ph.D.
Assistant Professor of Chemistry 115 Pinecrest Road

*HOFFER, JERRY, (1941) B.S., M.S. in A.E.
Instructor in Aeronautics 602 Buchanan Road

HOLLINSHEAD, WILLIAM HENRY, (1930) B.A., M.S., Ph.D.
Assistant Professor of Anatomy 2307 Prince Street

HOLTON, HOLLAND, (1912) A.B., J.D.
Professor of the History and Science of Education and Director of the Summer Session 809 Watts Street

HON, RALPH C., (1941) A.B., A.M., Ph.D.
Visiting Assistant Professor of Economics 127 Pinecrest Road

HOOVER, CALVIN BRYCE, (1925) A.B., Ph.D., Litt.D.
Professor of Economics and Dean of the Graduate School of Arts and Sciences 1702 Duke University Road

HOPPER, SAMUEL HERSEY, (1942) B.S., M.S., Ph.D.
Instructor in Preventive Medicine and Public Health Duke Hospital

HORACK, HUGO CLAUDE, (1930) Ph.B., LL.B., LL.D.
Professor of Law and Dean of the School of Law 2021 Myrtle Drive, West Campus

HUBBELL, JAY BROADUS, (1927) A.B., A.M., Ph.D.
Professor of English 121 Pinecrest Road

HULL, ROBERT, (1943) A.B., A.M.
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IRVING, WILLIAM HENRY, (1936) B.A., B.A. (Oxon.), M.A., Ph.D.
Professor of English 2707 Legion Avenue

JACOBS, R. KENNETH, (1943) B.S.C.E., B.S. Ed., M.S.
Assistant Professor of Civil Engineering 2515 State Street

JAMES, MARY FRANCES, (1937) A.B., M.T. (A.S.C.P.)
Technical Instructor in Clinical Microscopy Duke Hospital

JEFFERS, KATHERINE R., (1937) A.B., A.M., Ph.D.
Assistant Professor of Zoology 1507 West Pettigrew Street

JENSEN, HOWARD EIKENBERRY, (1931) A.B., A.M., B.D., Ph.D.
Professor of Sociology 143 Pinecrest Road

JOHNSON, MYCHYLE W., (1937) A.B., Ph.D.
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* Resigned, June 30, 1943.

JOHNSTON, CHRISTOPHER, (1930) A.B., M.D.
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JONES, HENRY HUNTER, (1943) A.B., C.E.
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*JONES, THOMAS T., (1937) A.B., M.D.
Associate in Medicine 1919 Club Boulevard

JORDAN, ARCHIBALD CURRIE, (1925) A.B., A.M.
Assistant Professor of English Pinecrest Road, Corner U. S. Highway No. 751

JORDAN, BRADY RIMBEY, (1927) Litt.B., Ph.D.
Professor of Romance Languages 117 Pinecrest Road

JUDD, MARY, (1943) A.B., M.A.
Instructor in Physical Education 203 Faculty Apartments

KAISER, HELEN LOUISE, (1943) R.P.T.T. 208 Faculty Apartments
Instructor in Physical Therapy, in charge of Division of Physical Therapy

†KEECH, JAMES MAYNARD, (1931) A.B., A.M., Ph.D.
Instructor in Economics 2803 Nation Avenue

*KEMP, EDWARD H., (1940) A.B., Ph.D.
Assistant Professor of Psychology 1403 Oakland Avenue

KEMPNER, WALTER, (1934) M.D.
Assistant Professor of Medicine 1505 Virginia Avenue

KNIGHT, WALTER DAVID, JR., (1943) A.B., A.M.
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KOCH, SIGMUND, (1942) A.B., A.M., Ph.D.
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KORSTIAN, CLARENCE FERDINAND, (1930) B.S.F., M.F., M.A., Ph.D.
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KOZA, ROBERT WAYNE, (1943) A.B.
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KRAMER, PAUL JACKSON, (1931) A.B., M.Sc., Ph.D.
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KRAYBILL, EDWARD K., (1939) B.S. in E.E.
Instructor in Electrical Engineering 900 Dacian Avenue

KRUMMEL, CHARLES ALBERT, (1922) Ph.B., Ph.M., Ph.D.
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KUHN, HAROLD HUNTER, (1940) A.B., B.S., M.D.
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LANDON, CHARLES EDWARD, (1926) A.B., A.M., Ph.D.
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LANNING, JOHN TATE, (1927) A.B., A.M., Ph.D.
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LAPRADE, WILLIAM THOMAS, (1909) A.B., Ph.D.
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LATTY, ELVIN REMUS, (1937) B.S., J.D., J.Sc.D.
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† Resigned, March 1, 1944.

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LEMERT, BEN FRANKLIN, (1930) B.Sc. in Bus. Admin., M.A., Ph.D.
Assistant Professor of Economic Geography 123 Pinecrest Road

LEONARD, HENRY SIGGINS, (1937) A.B., A.M., Ph.D.
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LESTER, RICHARD ALLEN, (1940) Ph.B., M.A., Ph.D.
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Professor of Theoretical Chemistry 1508 Oakland Avenue

LOVELL, DURWARD LEE, (1937) M.D.
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LOWNDES, CHARLES LUCIEN BAKER, (1934) A.B., LL.B., S.J.D.
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**LUND, JOHN JORGENSEN, (1939) A.B., Ph.D., Certificate of Librarianship
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LUNDEBERG, OLAV K., (1931) A.B., A.M., Ph.D.
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LUNDHOLM, HELGE, (1930) Fil. Kand., Fil. Lic., Ph.D.
Professor of Psychology 803 Second Street

LYMAN, RICHARD SHERMAN, (1940) B.A., M.D.
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MCBRYDE, ANGUS, (1931) B.S., M.D.
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MCCLOY, SHELBY THOMAS, (1927) A.B., M.A., B.A., B.Litt., Ph.D.
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MCCREA, FORREST DRAPER, (1930) B.S., M.S., Ph.D.
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† Resigned, June 30, 1943.
‡ On active duty, U. S. Army.
** Resigned, September 15, 1943.

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‡MANNING, ISAAC HALL, JR., (1939) A.B., M.D.
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MARGOLIS, GEORGE, (1940) A.B., M.D.
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MARGOLIS, LESTER HENRY, (1940) A.B., M.D.
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MARKEE, JOSEPH ELDRIDGE, (1943) B.S., Ph.D.
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MARTIN, DONALD STOVER, (1932) A.B., M.D. 2208 Pershing Street
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MARTIN, ELSIE W., (1930) A.B., M.S.
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MAUGHAN, WILLIAM, (1931) B.S., M.F.
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*MAXWELL, WILLIAM CARY, (1930) A.B., A.M., Ph.D.
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MENEFEE, ELIJAH EUGENE, JR., (1940) B.S., M.D.
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MILAM, DANIEL FRANKLIN, (1939) A.B., M.P.H., M.D.
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**MOUZON, JAMES CARLISLE, (1932) B.A., Ph.D.
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* On active duty, U. S. Navy.
† Absent on leave, Government Service.
‡ On active duty, U. S. Army.
** Resigned, February 29, 1944.

MUTH, RODERICK V., (1944) A.B., Lieutenant (jg), U. S. Naval Reserve
Assistant Professor of Naval Science and Tactics — Duke University

MYERS, HIRAM EARL, (1926) A.B., S.T.B., S.T.M.
Professor of Biblical Literature — 141 Pinecrest Road

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Associate Professor of History — Faculty Apartments

NEURATH, HANS, (1938) Ph.D.
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NICHOLSON, WILLIAM MCNEAL, (1935) A.B., M.D.
Assistant Professor of Medicine — 812 Anderson Street

NIELSEN, WALTER MCKINLEY, (1925) B.S. in E.E., Ph.D.
Professor of Physics — 139 Pinecrest Road

NOOJIN, RAY O., (1940) A.B., M.D.
Instructor in Dermatology and Syphilology — 2021 Sprunt Street

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NORFLEET, GRIZZELLE M., (1938) A.B., B.S., M.A.
Supervisor of the Spastic Clinic — 903 Sixth Street

ODOM, GUY LEARY, (1943) M.D.
Associate in Neurosurgery — Hope Valley Road

OGLESBY, ROSCOE RALPH, (1943) A.B., M.A.
Instructor in Engineering Drawing — University Apartments

OOSTING, HENRY JOHN, (1932) A.B., M.S., Ph.D.
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ORGAIN, EDWARD STEWART, (1934) M.D.
Assistant Professor of Medicine — Hope Valley

ORMOND, JESSE MARVIN, (1923) A.B., B.D., D.D.
Professor of Practical Theology — 110 Pinecrest Road

OUTLER, ALBERT C., (1938) A.B., A.M., B.D., Ph.D.
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OWEN, JOHN FLETCHER, (1943) B.S., M.D.
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‡PARKER, HAROLD TALBOT, (1939) A.B., Ph.D.
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PATTINSON, HULME HOLMES, (1943) B.S.M.E., B.A.
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PEARCE, CARNEY COOPER, JR., (1943) M.D.
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† Absent on leave, Government Service, 1943-1944.
‡ On active duty, U. S. Army.

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Professor of Greek — 406 Buchanan Road

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Associate Professor of Economics — 133 Pinecrest Road

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REAMER, I. THOMAS, (1931) Ph.G.
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Associate Professor of Medicine — 816 Anderson Street

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‡ On active duty, U. S. Navy.

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SCHUMACHER, FRANCIS X., (1937) B.S.
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SEELEY, WALTER JAMES, (1925) E.E., M.S.
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SMITH, FREDRIKA PATCHETT, (1943) B.S., M.A.
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† Resigned, June 30, 1943.
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STUBBS, FRANCIS HORATIO, JR., (1942) B.S., M.S., Lieutenant Commander, U. S. Navy (Ret.)
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† On active duty, U. S. Army.
‡ Absent on Sabbatical leave, first semester, 1943-1944.

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VANDERGRIFT, HARVEY NOBLE, (1942) A.B., M.D.
Instructor in Pediatrics Duke Hospital

VAN ALSTYNE, DOROTHY, (1942) A.B., A.M., Ph.D.
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VAN DUSEN, ALBERT EDWARD, (1941) B.A., M.A.
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VAN VOORHIS, ROBERT HENRY, (1941) A.B., A.M.
Instructor in Economics East Campus

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Instructor in History — Duke University

WAY, VERNON ELGIN, (1930) A.B., A.M., M.A.
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WEBB, ALBERT MICAJAH, (1903) A.B., A.M.
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WELFLING, WELDON, (1936) A.B., A.M., Ph.D.
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WELLS, WARNER LEE, (1938) M.D.
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WEST, ALFRED THURBER, (1930) B.S., A.M.
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MCLEAN, RUTH, (1942) A.B., A.M.
Research Associate in Bacteriology — 506 Buchanan Boulevard

MASON, MARY LOCHER, MRS., (1931) Diploma in Fine Arts, Teachers College, Columbia University
Assistant in Education — 2022 Club Boulevard

MASSENGILL, PAUL ROBINSON, (1943) A.B., M.D.
Assistant in Otolaryngology and Ophthalmology — Duke Hospital

MILLER, CHARLES HENDERSON, (1934) A.B., LL.B.
Assistant in Legal Aid Clinic; — 2108 Club Boulevard
Lecturer on Business Law

NEILL, ROBERT GLEVE, (1942) A.B., M.A., M.D.
Assistant in Surgery — 1500 Duke University Road

NICHOLSON, FRANCIS, (1942) B.S., M.D.
Assistant in Surgery — Duke Hospital

OAKLEY, KENNETH HARRINGTON, (1943) B.S., M.D.
Assistant in Otolaryngology and Ophthalmology — Duke Hospital

OTT, JOHN FREDERICK, (1944) M.D.
Assistant in Neuropsychiatry — Duke Hospital

PARRISH, ALBERT ARCHER, (1939) A.B., M.D.
Assistant in Urology — 1002 Lamond Avenue

PETERS, WILLIAM ANTHONY, JR., (1944) A.B., M.D.
Assistant in Obstetrics and Gynecology — Duke Hospital

PRINDLE, RONALD EDON, (1942) B.A., M.D.
Assistant in Otolaryngology and Ophthalmology — 2308 Erwin Road

REINHARDT, JAMES FRANKLIN, (1942) B.S., M.D.
Assistant in Medicine — Duke Hospital

ROGERS, MAX PRITCHARD, (1942) A.B., M.D.
Assistant in Surgery — Duke Hospital

SCHLAYER, CLOTILDE, (1937) Ph.D.
Research Assistant in Medicine — Duke Hospital

SIMPSON, PAUL ERVIN, (1941) A.B., M.D.
Assistant in Obstetrics and Gynecology — Duke Hospital

SINGLETON, MARY CLYDE, (1940) B.S., P.T.
Assistant in Physiotherapy — Duke Hosptial

SMITH, STEDMAN WEST, (1941) A.B., M.D., C.M.
Assistant in Obstetrics and Gynecology — 2507 Chapel Hill Road

STILES, HARLAN ALJEAN, (1942) B.S., M.D.
Assistant in Orthopaedics — Duke Hospital

THOMPSON, KEARNS REID, (1943) A.B., M.D.
Assistant in Orthopaedics — Duke Hospital

TURNER, LARRY, (1942) A.B., M.D.
Assistant in Otolaryngology and Ophthalmology — Duke Hospital

TURNER, VIOLET HORNER, (1943) B.A., M.D.
Assistant in Obstetrics and Gynecology — Duke Hospital

WILLSON, PRENTISS, JR., (1942) M.D.
Assistant in Obstetrics and Gynecology — Duke Hospital

WILSON, DAVID ALEXANDER, (1942) B.A., M.A., M.D.
Assistant in Surgery — Duke Hospital

WILSON, JAMES MAZYCK, (1938) A.B., M.D.
Assistant in Obstetrics and Gynecology — 818 Buchanan Road

INSTRUCTIONAL ASSISTANTS IN PHYSICAL EDUCATION
TRINITY COLLEGE

CALDWELL, HERSCHEL, (1930)
Instructor in Physical Education;
Coach of Freshman Sports — 1023 Markham Avenue

CARD, WILBUR WADE, (1902) A.B.
Instructor in Physical Education — 1110 Minerva Avenue

CHAMBERS, ROBERT LUTHER, (1933) B.S. in Ed.
Instructor in Physical Education;
Head Coach of Varsity Track — 2311 Prince Street

COOMBS, JOHN WESLEY, (1929) B.S.
Instructor in Physical Education;
Head Coach of Varsity Baseball — Faculty Apartments

COX, ROBERT CALVIN, (1942) A.B., M.A.
Instructor in Physical Education;
Assistant in Football — 709 Shepherd Street

CRICHTON, MARSHALL, (1931)
Instructor in Golf — Hope Valley

*DEAN, DAYTON ROBERT, (1931) A.B.
Business Manager of Athletics — 2207 Pershing Street

†FOGLEMAN, WILLIAM HARRY, (1935) A.B.
Instructor in Physical Education; Coach of Tennis — 2417 Farthing Street

GERARD, KENNETH, (1931) B.S.
Instructor in Physical Education;
Director of Intramural Sports — 1209 North Duke Street

HAGLER, ELLIS, (1930) A.B.
Instructor in Physical Education; Coach of
Varsity Golf; Assistant Coach of Football — 220 Forest Wood Drive

†LEWIS, HUBERT MURRY, (1937) B.S.
Assistant Instructor in Physical Education and Track — Duke University

†MONTFORT, ROBERT, (1940) B.A.
Assistant Instructor in Physical Education — Duke University

PERSONS, WALTER, (1930) A.B.
Instructor in Physical Education; Coach of Swimming;
Coach of Lacrosse — 612 Swift Avenue

POTTER, HARVEY L., (1940) B.A.
Instructor in Physical Education;
Coach of Wrestling — 2200 University Drive

STANLEY, DENNIS KEITH, (1939) A.B.E., M.Ed.
Instructor in Physical Education; Assistant
Coach of Football — University Apartments

THE UNIVERSITY LIBRARIES

UNIVERSITY LIBRARY

‡LUND, JOHN JORGENSEN, A.B., Ph.D., Certificate of Librarianship
University Librarian — 921 Monmouth Avenue

BREEDLOVE, JOSEPH PENN, A.B., A.M.
Acting Librarian — 407 Watts Street

MERRITT, GERTRUDE, A.B.
Chief of the Processing Division — 1907 Club Boulevard

**NUERMBERGER, GUSTAVE ADOLPH, A.B., A.M., Ph.D.
Certificate of Librarianship
Head Reference Librarian — 2018 Woodrow Street

OYLER, HELEN, A.B., B.S. in L.S.
Head Circulation Librarian — 512 Watts Street

***TAUBE, MORTIMER, A.B., Ph.D., Certificate of Librarianship
Chief of Accessions — 1109 North Gregson Street

THARPE, JOSEPHINE M., A.B., B.S. in L.S., M.S. in L.S.
Acting Head Reference Librarian — 1023 Markham Avenue

TILLEY, NANNIE M., A.B., M.A., Ph.D.
Curator of Manuscripts — 2313 Club Boulevard

WESCOTT, MARY, A.B., B.S. in L.S.
Head Cataloguer — 403 Watts Street

* On active duty, U. S. Navy.
† On active duty, U. S. Army.
‡ Resigned, September 15, 1943.
** On leave, in Defense Work.
*** Resigned, February 1, 1944.

COVINGTON, LENA, A.B., A.B. in L.S.
Head Classifier — 403 Watts Street

GREENE, JANE, A.B., B.A. in L.S.
Head Order Librarian — 1004 West Trinity Avenue

HOPKINS, BERTHA, B.S., A.B. in L.S.
Head Serials Librarian — No. 11 Powe Apts., Buchanan Road

KIMBALL, MRS. RALPH, A.B., B.S. in L.S.
Subject Cataloguer — 2112 Wilson Street

PARKER, WIXIE ELMA, A.B., B.S. in L.S.
Periodical Librarian — No. 7 Powe Apts., Watts Street

RAMAGE, MARY ALLENE, A.B., B.A. in L.S.
Newspaper and Film Librarian — 1003 Monmouth Avenue

ROSE, MRS. ETHEL A., A.B.
Head Descriptive Cataloguer — Powe Apts., Watts Street

ADAMS, MRS. VIRGINIA C., A.B.
Librarian in charge, Chemistry Library — 906 Monmouth Avenue

ATKINS, MRS. DOROTHY W., A.B.
Assistant, Serials Section — 1016 Gloria Avenue

BITTING, MARY ELIZABETH, A.B., M.A., A.B. in L.S.
Bibliographer — 2105 Club Boulevard

BURCH, VELLA JANE, A.B., A.M., B.A. in L.S.
Descriptive Cataloguer — 316 N. Elizabeth Street

CANADA, MARY WHITFIELD, A.B., M.A.
Assistant, Circulation Department — 1311 Second Street

CLINE, JOHN
Assistant, Circulation Department — 405 South Alston Avenue

COPLEY, HILDA
Assistant in charge, Work Room — 1005 Sixth Street

COX, MRS. EVA WOODALL, A.B.
Librarian in charge, Divinity School Library — No. 4 Allenton Apts.

CRAMBLITT, MARY VIE, A.B., B.S. in L.S.
Reference Librarian — 819 Third Street

DENNIS, MRS. ARTHUR W.
Librarian in charge, Engineering Library — 818 Sixth Street

DOLLAR, MRS. ANNABELLE
Assistant, Work Room — 1609 Englewood Avenue

DOUGLAS, ELINOR, A.B., M.A.
Assistant, Periodical Room — 2114 Myrtle Drive

DUDLEY, MRS. KATHLEEN MAULTSBY, A.B.
Accessions Librarian — 1314 Broad Street

DUKE, MRS. KENNETH L.
Secretary to Acting Librarian — 701 Club Boulevard

EDWARDS, MARY JANE, A.B.
Assistant, Circulation Department — 406 Buchanan Road

FRAZIER, ROSE MARIE, B.S., B.M., A.B. in L.S.
Librarian in charge, Undergraduate Reading Room — 1111 Urban Avenue

FREDERICK, MARION
Assistant, Serials Section — Y.W.C.A.

FREY, ELLEN, B.A., M.A. — No. 4 Powe Apts., Buchanan Road
Undergraduate Reference Librarian and Curator of Rare Books

GOODWIN, NOMA LEE, A.B.
Assistant, Manuscript Department — Roxboro Road

HEETH, LOUISA, A.B., A.B. in L.S.
Documents Librarian — 2314 Club Boulevard

HOCKMAN, MRS. CHARLOTTE F.
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KENNEDY, MARY JO, A.B., B.S. in L.S.
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*KENNEDY, VIRGINIA
Assistant in charge, Physics-Mathematics Library — 2416 Huron Street

KIRKLAND, DOROTHY, A.B.
Assistant, Descriptive Cataloguing Section — 208 Jones Street

LAWS, ELLEN
Assistant, Descriptive Cataloguing Section — Route No. 1, Durham

LEMEN, WILHELMINA, A.B., A.B. in L.S.
Serials Cataloguer — 805 Sixth Street

†LEONARD, EVA O., A.B., B.S. in L.S.
Descriptive Cataloguer — 1004 West Trinity Avenue

MCCOY, LEWISTINE MARTIN, A.B.
Assistant, Manuscript Department — 818 Sixth Street

MACMILLAN, LOUISE, A.B.
Assistant, Serials Section — 1414 Dollar Avenue

MONTAGUE, MARGARET, A.B.
Secretary to the Chief of the Processing Division — 206 Parrish Place

SEIGLER, MRS. HAZEL G., A.B.
Bibliographer — 1311 Arnett Avenue

SHUFORD, MARY OPAL, A.B., A.B. in L.S.
Assistant Classifier — 805 Sixth Street

SLOAN, MRS. LILLIE DUKE, A.B.
Assistant, Descriptive Cataloguing Section — 1024 Markham Avenue

WATKINS, MRS. MARJORIE S.
Librarian in charge, Biology Library — Duke University Library

WILKERSON, MRS. LULA H.
Assistant, Order Section and Assistant Secretary to the Acting Librarain — 505 Yates Avenue

WILKERSON, RUTH
Assistant to Classifiers — 1016 Gloria Avenue

WOOD, MRS. SALLIE L. — 1113 North Duke Street
Librarian in charge, Physics-Mathematics Library

YOUNG, MRS. JEAN STEINER, A.B.
Assistant, Circulation Department — 2232 Cranford Road

* On leave, 1943-1944.
† Resigned, December 1, 1943.

WOMAN'S COLLEGE LIBRARY

GRIGGS, MRS. LILLIAN BAKER, B.A. in L.S.
Librarian — 915 Monmouth Avene

HARRISON, EVELYN JENNINGS, A.B., B.S. in L.S.
Head Cataloguer — 403 Watts Street

HICKS, MRS. SPEARS, A.B., A.B. in L.S.
Reference Librarian — 121 West Seeman Street

LUNSFORD, NONIE, A.B.
Assistant, Circulation Department — 1401 Maryland Avenue

PARKER, ENID, A.B., M.A., Ph.D., B.A. in L.S.
Periodicals Librarian — 307 Faculty Apartments

TILLETT, MARGARET S., A.B., A.B. in L.S.
Circulation Librarian — 112 West Seeman Street

TYSINGER, CATHERINE VICTORIA, A.B., B.S. in L.S.
Cataloguer — East Campus

LAW LIBRARY

*ROALFE, WILLIAM ROBERT, LL.B.
Librarian — 2410 West Club Boulevard

LONG, MARIANNA, A.B., B.S. in L.S.
Acting Librarian — 403 Watts Street

COVINGTON, MARY SIMMONS, A.B., LL.B.
Research Librarian — East Duke Campus

DAY, KATHERINE, B.S.
Assistant Cataloguer — 512 Watts Street

HARWELL, MRS. GEORGE, A.B.
Assistant in Cataloguing Division — 2016 Sunset Avenue

MEDICAL SCHOOL LIBRARY

FARRAR, JUDITH, A.B., B.S.
Librarian — 117 Faculty Apartments, East Campus

UNIVERSITY CHAPEL

HICKMAN, FRANKLIN SIMPSON, A.B., A.M., S.T.B., Ph.D.
Dean of the Chapel — 823 Buchanan Road

BARNES, JAMES FOSTER, A.B., A.M.
Director of Choral Music — 2401 Cranford Road

BREES, ANTON
University Carillonneur — Duke University

BROADHEAD, EDWARD HALL, A.B., A.M., M.M.
University Organist — 1015 Dacian Avenue

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†GREEN, CHARLES SYLVESTER, A.B., A.M., B.D., D.D., Litt.D.
Adviser in Religious Activities — 2216 Club Boulevard

* Absent on leave, Government Service.
† For academic year, 1943-1944.

Highsmith, Agnes, A.B., A.M.
Assistant in Religious Activities, Woman's College 113 Faculty Apartments

PHYSICAL EDUCATION AND STUDENT HEALTH

*Wade, Wallace, A.B.
Director of Physical Education, Trinity College West Campus

Cameron, Edmund McCullough, A.B.
Acting Director of Physical Education, Trinity College Hope Valley

Grout, Julia Rebecca ,A.B., M.S.
Assistant Professor of Physical Education, Woman's College 205 Jones Street

Speed, Joseph Anderson, M.D.
Director of Student Health 913 Dacian Avenue

Page, Wray Ramsey, Mrs., R.N.
Resident Nurse East Campus Infirmary

Vestal, Mozelle, R.N.
Resident Nurse East Campus Infirmary

MUSICAL ACTIVITIES

Barnes, James Foster, A.B., A.M.
Director of Men's Glee Club 2401 Cranford Road

Barnes, Mrs. James Foster
Director of the Woman's College Musical Clubs 2401 Cranford Road

*Fearing, Robert Beveridge
Director of the College Orchestras and Band 410 Watts Street

RESIDENCE AND SOCIAL DIVISION

Wilson, Mary Grace, A.B.
Dean of Residence, Woman's College; Counselor, Brown House Brown House

Schrader, Mrs. Arline Ditlevson
Assistant to Dean of Residence; Counselor, Aycock House Aycock House

Pemberton, Mrs. Mary Norcott
Hostess, West Campus West Campus Union

Barnes, Evelyn, B.S.
Counselor, Alspaugh House Alspaugh House

Chaffin, Nora Campbell, A.B., A.M., Ph.D.
Counselor, Bassett House Bassett House

Hull, Alma, A.B.
Counselor, Pegram House Pegram House

Taylor, Mrs. Harriet
Counselor, Giles House Giles House

Wellborn, Mary Moss, A.B.
Counselor, Jarvis House Jarvis House

* On active duty, U. S. Army.

POWELL, VIRGINIA, B.S.
Dietitian, the Union, West Campus — 214 Swift Avenue

OLIVER, MRS. HELEN
Dietitian, the Union, East Campus — Corner Fairview and Wells Streets

NORWOOD, MRS. G. D.
Dietitian, Southgate Hall — 204 Watts Street

BORING, MRS. HAL
Supervisor of Dormitories, West Campus — 115 Watts Street

HOOKER, MRS. MARY R. — Powe Apartments, Buchanan Road
Supervisor of Dormitories, East Campus

LEA, MRS. BEULAH C.
Supervisor of Dormitories, West Campus — 1920 Chapel Hill Road

LONG, MRS. R. T.
Supervisor of Dormitories, West Campus — 705 Shepherd Street

WEGENER, MRS. MARY E. — Powe Apartments, Buchanan Road
Supervisor of Dormitories, East Campus

ALDRIDGE, FRED SOULE, A.B., A.M. — East Campus
Chaplain of Duke Hospital and Director of the Golden Cross

FELLOWS AND GRADUATE ASSISTANTS

UNIVERSITY FELLOWS

Name	*Department*	*Home Address*
CARROLL, HOWARD A.B., University of Richmond; B.D., Duke University	Religion	Easton, Md.
EVANS, ALONA ELIZABETH A.B., Duke University	Political Science	Durham, N. C.
KREPS, CLIFTON HOLLAND, JR. A.B., The College of William and Mary; A.M., University of North Carolina	Economics	Norfolk, Va.
MORRIS, CLARA JUANITA A.B., Berea College	Economics	Benham, Ky.
RAMSAY, CHARLES McKAY A.B., Berea College; B.D., Union Theological Seminary	Religion	Lynnville, Tenn.
SMITH, WILLIAM JORDAN JOSEPH A.B., University of Texas	Economics	Dallas, Tex.
WIGGINS, ELIZABETH LEWIS A.B., Winthrop College; A.M., Duke University	English	Holly Hill, S. C.
YOUNG, FRANKLIN WOODROW A.B., Dartmouth College; B.D., Crozer Theological Seminary	Religion	Chester, Pa.

GRADUATE RESEARCH ASSISTANTS

BLOOM, MELVIN B.S., Furman University	Chemistry	Greenville, S. C.
DEAL, CARL HOSEA, JR. B.S., Duke University	Chemistry	Salisbury, N. C.

Name	*Department*	*Home Address*
GILBERT, ALFRED RACHELS B.S., University of Richmond; A.M., Duke University	Chemistry	Richmond, Va.
HOLUB, FREDERICK FRANK B.S., Western Reserve University	Chemistry	Cleveland, Ohio
KITTILA, RICHARD S. B.Chem., University of Minnesota	Chemistry	Ely, Minn.
TARRANT, PAUL B.S., Howard College; M.S., Purdue University	Chemistry	Birmingham, Ala.
TOMPSON, READ YATES B.S., Brown University	Chemistry	Attleboro, Mass.
WEISS, MARTIN J. B.A., New York University	Chemistry	New York, N. Y.

GRADUATE ASSISTANTS

ADAMS, JOE TAYLOR B.S., Southern Methodist University	Chemistry	Dallas, Tex.
*BASS, ARNOLD MARVIN B.S., College of the City of New York; A.M., Duke University	Physics	New York, N. Y.
BEVAN, WILLIAM, JR. A.B., Franklin and Marshall College; A.M., Duke Universtiy	Psychology	Plains, Pa.
†BRAVERMAN, HOWARD A.B., Brooklyn College.	History	Brooklyn, N. Y.
BRYAN, THOMAS CONN A.B., Duke University; A.M., University of North Carolina	History	Skyland, N. C.
BUCHANAN, EDITH A.B., Meredith College	English	Cullowhee, N. C.
COLLINS, HERBERT A.B., Brooklyn College	History	Brooklyn, N. Y.
FIELD, FRANK HENRY B.S., Duke University	Chemistry	Cliffside Park, N. J.
‡FREISER, HENRY B.S., College of the City of New York; A.M., Duke University	Chemistry	Durham, N. C.
FRIES, JEAN NEVIN A.B., Wilson College	English	Chambersburg, Pa.
HERTZ, HILDA A.B., Skidmore College	Sociology	Forest Hills, L. I., N. Y.
KAO, KATHERINE CHUN CH'UN A.B., A.M., Yenching University	Psychology	Peiping, China
**KENNEDY, PHILIP EDWARD A.B., Fairmont State Teachers College; A.M., West Virginia University	English	Fairmont, W. Va.
KINGSTON, MARION JOSEPHINE A.B., Mount Holyoke College	English	Melrose, Mass.
KINSMAN, MARGARET ELEANOR A.B., MacMurray College	History	Peoria, Ill.

* Resigned, November 26, 1943.
† Appointed, March 1, 1944.
‡ Resigned, February 29, 1944.
** Resigned, November 1, 1943.

Name	*Department*	*Home Address*
*KNIGHT, WALTER DAVID, JR. A.B., Middlebury College; A.M., Duke University	Physics	Newton Centre, Mass.
KNOX, NORMAN DAVIS A.B., Swarthmore College	English	McKeesport, Pa.
KRATHWOHL, BETTY AUGENSTINE B.S., Alfred University	Zoology	Silver Creek, N. Y.
KRUMMEL, MARY ELEANOR A.B., Duke University; B.S., Institute of Musical Art	Romance Languages	**Durham, N. C.**
LAIR, EUGENIE DILLE A.B., Randolph-Macon Woman's College	Botany	Cynthiana, Ky.
LEVINE, ROBERT A.B., A.M., Dartmouth College	Chemistry	East Boston, Mass.
LUBORSKY, LESTER BERNARD A.B., Temple University; A.M., Duke University	Psychology	Philadelphia, Pa.
†LYONS, RICHARD EDWIN A.B., University of Buffalo	Physics	Buffalo, N. Y.
MCANDREW, FLORENCE HELTON A.B., Mary Baldwin College; A.M., Northwestern University	Psychology	Chicago, Ill.
MANES, MILTON B.S., College of the City of New York	Chemistry	New York, N. Y.
‡MOORE, EDWARD JAMES, JR. A.B., University of Buffalo	Physics	Getzville, N. Y.
PARKS, ELIZABETH MIRIAM A.B., Grinnell College	English	Denver, Colo.
POHL, MARIAN EVELYN B.S., Duke University	Zoology	Trenton, N. J.
RAPOPORT, LORENCE A.B., Harvard College	Chemistry	Hartford, Conn.
RASKIN, VILMA LEAH A.B., Brooklyn College	English	Brooklyn, N. Y.
ROEBUCK, JULIAN BAKER A.B., Atlantic Christian College	Sociology	Wilson, N. C.
ROSENBAUM, HASKELL MENACHIM B.S., College of the City of New York	Chemistry	Sunnyside, N. Y.
SCHAEDLER, FRANCES ANN CRAGHEAD A.B., Randolph-Macon Woman's College; A.M., Duke University	Latin	Lynchburg, Va.
SCHERAGA, HAROLD ABRAHAM B.S., College of the City of New York; A.M., Duke University	Chemistry	Durham, N. C.
SHAPIRO, CONSTANCE A.B., Hunter College	English	New York, N. Y.
SHIVERS, JOSEPH CLOIS, JR. B.S., A.M., Duke University	Chemistry	Riverton, N. J.

* Resigned, November 2, 1943.
† Resigned, March 3, 1944.
‡ Resigned, January 31, 1944.

Name	*Department*	*Home Address*
*TAYLOR, HAROLD NORMAN A.B., A.M., State University of Iowa	History	Jasonville, Ind.
THEVAOS, DENO GEORGE A.B., Emory University	Education	Augusta, Ga.
TOMLINSON, MURIEL DOROTHY A.B., Bates College	Romance Languages	Manchester, Conn.
†TOMPSON, READE YATES B.S., Brown University	Chemistry	Attleboro, Mass.
WALKER, HOWARD GEORGE, JR. B.S., Duke University	Chemistry	Westfield, N. J.
WEITH, ARCHIE JAMES, JR. A.B., A.M., Duke University	Chemistry	Caldwell, N. J.
WIGGINS, PAULINE EVELYN A.B., University of Chattanooga	English	Birchwood, Tenn.
WISSOW, LENNARD JAY B.S., Pennsylvania State College; A.M., Duke University	Chemistry	Philadelphia, Pa.
WOOD, VIRGINIA LORAINE A.B., Roanoke College	Political Science	Roanoke, Va.
YOST, ROBERT STANLEY B.S., Pennsylvania State College	Chemistry	Pottsville, Pa.

GRADUATE SCHOLARS

‡CANDLER, FRANCES GODFREY A.B., Randolph-Macon Woman's College	History	Madison, Ga.
**COOPER, JOEL AUBREY A.B., Hendrix College; B.D., Duke University	Religion	Paragould, Ark.
KEPPEL, DOROTHY JANE A.B., Heidelberg College	Sociology	Berea, Ohio
***KING, SARA EDNA A.B., Geneva College	Religion	Beaver Falls, Pa.
O'BRIEN, JOSEPH WILLIAM A.B., Georgetown College; B.D., Colgate-Rochester Divinity School	Religion	Kingsville, Ohio
RUDISILL, DORUS PAUL A.B., Lenoir Rhyne College; A.M., University of South Carolina; B.D., Lutheran Theological Southern Seminary; S.T.M., Hartford Theological Seminary	Religion	Durham, N. C.
SCHAFER, THOMAS ANTON A.B., Maryville College; B.D., Louisville Presbyterian Theological Seminary	Religion	Liverpool, Ohio
STONE, ANN A.B., Millsaps College	Romance Languages	Jackson, Miss.
TRUSCOTT, ETHEL IRENE A.B., Coker College	English	Lomas de Zamora, Argentina
WALL, MILDRED EUGENIA A.B., Birmingham-Southern College	History	Birmingham, Ala.

* Resigned, March 8, 1944.
† Resigned, February 29, 1944.
‡ Resigned, March 1, 1944.
** Resigned, October 31, 1943.
*** Second semester only.

THE COLLEGES

GENERAL STATEMENT

Duke University offers in Trinity College, the Woman's College, and the College of Engineering three academic degrees for undergraduate work: Bachelor of Arts, Bachelor of Science, and Bachelor of Science in Civil, Electrical, or Mechanical Engineering

TRINITY COLLEGE

Trinity College is the undergraduate college of arts and sciences for the men of Duke University and is situated on the West Campus along with the Graduate School of Arts and Sciences, the School of Law, the School of Medicine, the School of Nursing, the School of Forestry, and the Divinity School.

THE WOMAN'S COLLEGE

The Woman's College of Duke University is a college of arts and sciences within the University which provides for the instruction of undergraduate women as Trinity College provides for the instruction of undergraduate men.

THE COLLEGE OF ENGINEERING

Duke University, through the College of Engineering, offers standard four-year courses in civil, electrical, and mechanical engineering, with an aeronautics option for mechanical engineers.

THE LIBRARIES

The library resources of the University total 681,032 volumes, 839,567 manuscript pieces, and 2,722 books on microfilm. Seventy-seven foreign and domestic newspapers and 2,876 periodicals are received currently.

The University Library, in which the bulk of the collection is housed, is centrally located on the West Campus. The main Reference and Reading Room on the second floor contains about 5,000 volumes of important reference works and the books on reserve for Senior-Graduate courses. The Undergraduate Reading Room on the first floor contains a specially selected collection of approximately 2,000 books for general undergraduate reading and reference, together with the books on reserve for undergraduate courses. The Documents Room on the second floor gives students access to the official publications of the federal and state governments. Seniors, honor students, and others undertaking special studies may be admitted to the stacks to facilitate their work. The Chemistry Library of 10,832 volumes, the Physics-Mathematics Library of 10,197

volumes, the Biology-Forestry Library of 29,623 volumes, the College of Engineering Library of 7,789 volumes, and the Divinity School Library of 35,438 volumes are housed in the buildings in which these subjects are taught to make them convenient especially to the Faculty and students in these fields. The Hospital Library of 40,284 volumes and the Law Library of 74,098 volumes are housed in the Hospital and Law buildings respectively.

The Woman's College Library, which is one of the dominant units of the Georgian architecture of the East Campus, contains approximately 58,756 volumes. Among these are the books most constantly needed in the undergraduate work of women students. An attractive feature of the Library is the Booklovers' Room, comfortably furnished, where on open shelves students may find interesting books in various fields. In honor of the late James A. Thomas the Thomas Memorial Room was opened in December 1942. The decorations and furnishings in this room were provided by his Chinese and American friends. It affords a quiet, comfortable place for studying or reading.

Undergraduate students also have free access to the library collections of the Medical and Law Schools.

NAVAL RESERVE OFFICERS' TRAINING CORPS

The primary object of the Naval Reserve Officers' Training Corps is to provide systematic instruction and training in essential naval subjects for a group of selected students so that they may be qualified and available for duties as deck officers in the United States Navy. The work supplements other courses taken in the University.

Admission

Enrollment in the Naval Reserve Officers' Training Corps is entirely voluntary. Selection will be made from those students of the Freshman Class who are enrolled in the V-12 U. S. Navy College Program, after the completion of two semesters of college work under that program. Selection will be based on the academic work and the personality of the candidate.

Outline of Course

The Department of Naval Science and Tactics is an integral part of the University, and the courses in Naval Science and Tactics are on the same level and receive the same form of credit toward graduation as other courses in the University.

The course in Naval Science and Tactics is a five-semester course, beginning at the completion of two semesters of Freshman work. Satisfactory completion of each semester's work is necessary for continuance in the Unit.

The study of Navigation and other subjects included as a part of the course requires a basic knowledge of mathematics, including algebra, plane and solid geometry, and plane trigonometry. The two semesters of Freshman work will cover the required mathematics.

Uniforms, Books, and Equipment

Students in the course are furnished complete uniforms by the Navy Department. Students, however, provide themselves such items as collars, white shirts, black socks, and black shoes.

All books and equipment that the student needs in the course are loaned to him without cost. A deposit of $10.00 is required of each student to cover lost or damaged equipment. This deposit, or as much of it as remains, will be returned when the student severs his relation with the Unit.

Draft Status

All students enrolled will be enlisted in the U. S. Naval Reserve, will be on active duty, will receive regular Navy pay of grade, and will be furnished housing, board, instruction and medical attention at Government expense. As members of the Naval Reserve they are exempt from the Selective Service and Training Act, and their stay in college is dependent upon satisfactory academic training and good behavior; otherwise they will be sent to sea as apprentice seamen.

ADMISSION TO TRINITY COLLEGE AND THE WOMAN'S COLLEGE

Applicants may qualify for admission to Trinity College or the Woman's College as members of the Freshman Class or as students with advanced standing. Since the enrollment in the two colleges is limited, the Committee on Admissions will select the students who, in its opinion, are best qualified to benefit from the educational advantages which the colleges offer.

APPLICATION FOR ADMISSION

Application for admission to Trinity College should be made to the Secretary of Duke University, Duke Station, Durham, North Carolina, for transmittal to the Council on Admissions. Application for admission to the Woman's College should be made to the Committee on Admissions, College Station, Durham, North Carolina. Forms of application will be sent on request.

GENERAL REQUIREMENTS

Admission to Trinity College and to the Woman's College is dependent upon the ability, attainments, and character of the applicant. Each applicant must see that the Committee on Admissions receives a complete record of his work in secondary school or college, the required medical certificate, and satisfactory evidence of his good character and ability.

SPECIFIC REQUIREMENTS

An applicant for admission to the Freshman Class must present at least fifteen acceptable units of secondary school credit. A unit of credit is allowed for a course of study pursued throughout an academic year at an accredited secondary school, if the course has demanded five recitations a week and the prescribed amount of work has been completed satisfactorily.

1. Twelve units must be in English, foreign language, history and social studies, mathematics, and natural science; and must include:
   (a) English—3 units
   (b) Algebra—1 unit.
   (c) Plane geometry—1 unit.
2. Three units may be in the subjects listed above or from those in the following table. The units indicate the maximum amount of credit acceptable in each subject:

SUBJECT	UNITS	SUBJECT	UNITS
Agriculture	2	Mechanical Drawing	2
Art	1	Music	1
Commercial Subjects	3	Physical Geography	1
Economics	1	Sociology	1
Household Economics	2	Woodworking, Machine Work	2

Other units offered in subjects not included in this list will be considered for acceptance on the basis of full statements transmitted with the applicant's record from the school recommending him.

ADMISSION BY CERTIFICATE

A graduate of an accredited school, who submits fifteen acceptable units of secondary school subjects, is recommended by his principal, and otherwise meets the requirements of the Admissions Committee, may be admitted without examination. This certificate must be on blanks furnished by the College and signed by the principal of the school in which the applicant completed his course.

ADMISSION BY EXAMINATION

An applicant who presents fifteen acceptable units for admission from a nonaccredited school is required to validate these units by entrance examinations and such other tests as the College may prescribe.

ADMISSION WITH ADVANCED STANDING

A student of good character who has completed satisfactorily at least one full year of college work in an approved college may be admitted with advanced standing. He must have fulfilled the equivalent of the requirements for admission to the Freshman Class, must present official certificates of all work done in other institutions, and have honorable dismissal from each institution previously attended. Credit for work completed will be determined in relation to the curriculum at Trinity College or the Woman's College.

A student enrolling for the Bachelor's degree who transfers from a junior college or from a four-year college not affiliated with the Southern Association, or a similar regional association, is under all circumstances required to continue for at least one semester in Trinity College or in the Woman's College the foreign language he presents for minimum graduation requirements.

A student who has transferred from a junior college or from a four-year college not affiliated with the Southern Association, or a similar regional association, must present laboratory notebooks in all science courses that are offered for advanced credit.

A student admitted with advanced standing will be given an average grade of "C" on the semester hours with which he is credited, provided his grades warrant it. In order to make his provisional classification final, he must pass during his first year of residence not less than the equivalent of four year-courses, with an average grade of "C" or higher.

The maximum amount of credit acceptable from a junior college is sixty semester hours.

No credit is given for work completed by correspondence, and not more than six semester hours of credit are allowed for work done by extension. Any extension work accepted must be specifically approved by the Dean of the College.

ADMISSION FOR SPECIAL WORK

Upon the approval of the Dean, a student of mature age may be admitted for special work in such courses of instruction as he is qualified to take, but not as a candidate for a degree in a regular course unless he meets all requirements for admission.

READMISSION OF FORMER STUDENTS

A student who, following withdrawal from college, desires to return to the College, should apply to the Dean for readmission. If a student has completed during his absence from the College any undergraduate work in another institution of approved standing, he must submit an official transcript of this work, with a statement of honorable dismissal, from that institution.

PRELIMINARY TESTS AND EXAMINATIONS

During the orientation period all Freshmen are given placement tests in chemistry, English, mathematics, and the foreign language they are to continue. On the results of these tests and general ability tests students are assigned to the proper sections of their respective academic subjects. Physical examinations are also given.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

GENERAL REGULATIONS

The requirements for the degree of Bachelor of Arts are designed to give the students such training in certain fundamental subjects as is essential for intelligent, educated citizens. The requirements also provide the opportunity for as wide an election as possible from courses of study which are both interesting and practically helpful in connection with vocations the students plan later to pursue.

Credit for one hundred and twenty semester hours, on which an average grade of "C" must be made, is required for the degree of Bachelor of Arts in all groups. In addition to these requirements all candidates for the Bachelor of Arts must complete, with an average grade of "C" or better, physical education to the equivalent of six semester hours. In Trinity College the physical education requirement is completed by the end of the Sophomore year; in the Woman's College, by the end of the Junior year.

The Faculty has authorized the groups of studies below for the guidance of students in selecting the work required for graduation. A student is free to choose any group he may desire. The several groups are designed to be of special value in a chosen profession and at the same time to provide a well-balanced course of study. With the approval of the Dean a student may at any time transfer from one group to another. In such transfers, work done in one group and not prescribed in the other will count as general elective credit, but all work prescribed in the new group must be completed before the student can be graduated.

No student is permitted to take less than fourteen semester hours of work without special permission from the Dean; to take more than the normal load of work (fourteen to seventeen semester hours) unless his average grade in the preceding semester is "C" or above; or, under any conditions, to take more than nineteen semester hours of work, exclusive of required physical education.

On or before the date announced for the spring registration every student is required to designate the group in which he plans to graduate and to arrange his program of courses for the ensuing year. All students, when choosing courses, are urged to seek the advice of instructors in whose departments they expect to receive instruction. No course card is valid until it has the approval of the Dean.

SPECIAL REGULATIONS

The following special rules applying to the selection of courses are authorized by the Faculty:

The total amount of work that a student, other than an Honors student, may take in any one department toward the Bachelor of Arts degree is limited to a maximum of thirty-six semester hours; with the exception that a student whose principal work is in the Departments of English, Economics, or Romance Languages may be permitted to take additional work in subdepartments not to exceed a total in the department and the subdepartments of fifty-four semester hours.

Candidates for the degree of Bachelor of Arts whose courses of study permit may elect work from the following subjects: engineering, not to exceed eighteen semester hours; forestry, not to exceed eighteen semester hours. The courses elected in these departments must be those approved by the Council on Undergraduate Instruction as appropriate for the Bachelor of Arts degree and published in the *Bulletin of Undegraduate Instruction.* The classification of these courses, as they affect divisions of concentration and restricted electives, is left to the student's major adviser and to the Dean.

No Senior may take for graduation credit any course primarily open to Freshmen; and no Junior may take for graduation credit more than one course primarily open to Freshmen. A list of these courses is published in the *Bulletin* under "Courses of Instruction."

Not more than one course of six or eight semester hours of credit in final fulfillment of the requirements for the degree of Bachelor of Arts in Duke University may be taken in another institution of approved standing, and this course must first be approved by the head of the department concerned and by the Dean.

MINIMUM UNIFORM REQUIREMENTS FOR ALL GROUPS

The following requirements are authorized for all groups:

	S.H.
English 1-2	6
Natural Science	8
Economics, History, or Political Science	6
Religion	6

In addition to the above requirements, at least the third college year of a foreign language must be completed.

English 1-2, 6 s.h.—This requirement is normally met by the completion of English 1 and 2. A Freshman who satisfies the Department of English of his superior ability in composition may substitute, however, another English course for English 1.

Natural Science, 8 s.h.—A student who does not present for entrance an acceptable unit of science must taken sixteen semester hours of science for graduation.

Economics, History, or Political Science, 6 s.h.—A student who does not present for entrance two acceptable units of history (exclusive of other social science work) must take history as his required work; otherwise he may fulfill this requirement in any one of the three subjects.

Foreign Language (third college year).—Students who begin their language requirements in college are expected to follow the sequence of courses

laid down by the department whose work they take and can omit only such course or courses as may be approved both by the department and the office of the Dean. If a Freshman presents for entrance four units of Latin, he may satisfy his language requirements by taking either two years of Latin or two years of Greek. In exceptional cases, on the recommendation of the department and with the approval of the Dean, a student who has completed the second college year of a language may satisfy the requirement in language by completing the first college year of another language.

Of these minimum requirements, at least three courses, including English and foreign language, should be taken in the Freshman year, and all of them, except foreign language and religion, by the end of the Sophomore year.

The courses primarily open to Freshmen and the courses that will satisfy the requirements in history, science, and religion are listed under "Courses of Instruction."

GROUPS OF STUDIES FOR THE DEGREE OF BACHELOR OF ARTS

GROUP I

General

This group is based on the traditional requirement for the degree of Bachelor of Arts. Students who choose it must complete the minimum uniform requirements for graduation; forty-two semester hours in a division of concentration, exclusive of courses open primarily to Freshmen (in the Division of the Natural Sciences a maximum of eight hours of Freshman work is permitted in the forty-two hours mentioned above); twelve semester hours of restricted electives in the other divisions; and free elective work sufficient to complete, with an average grade of "C," the one hundred and twenty semester hours necessary for graduation. The departments of instruction, for purposes of concentration, are grouped in three divisions:

Humanities: English, Fine Arts, German, Greek, Latin, Music, Philosophy, Romance Languages.

Social Science and History: Economics, Political Science, Education, History, Religion, Sociology.

Mathematics, Psychology, and Natural Science: Botany, Chemistry, Geology, Mathematics, Physics, Psychology, Zoology.

The forty-two semester hours in the division of concentration must be distributed as follows: eighteen to twenty-four semester hours in a major department and eighteen to twenty-four semester hours in at least two other departments of the same division with a minimum of six semester hours in each department. The minimum number of hours required by the department for a major shall not include any course open primarily to Freshmen. Introductory courses above the Freshman level are to be counted or not at the discretion of the department concerned.

For purposes of concentration certain courses listed in the same department are considered as being in different departments; namely, courses

in French, Italian, and Spanish. Likewise, courses in economics and business administration are reckoned as being in different departments. Also a student taking his major work in English literature may count courses in English composition, dramatic technique, or public speaking as part of his related work in the same division.

The twelve semester hours of restricted electives must be taken in one or both of the divisions not chosen for concentration, with a minimum of six semester hours in any one department of these divisions.

Attention is called here to a special regulation governing all groups leading to the Bachelor of Arts degree which limits the amount of work a student, other than an Honors student, may take in any one department to a maximum of thirty-six semester hours, with the proviso that a student whose principal work is in the Departments of English, Economics, or Romance Languages is permitted to take additional work in subdepartments not to exceed a total in the department and the subdepartments of fifty-four semester hours.

The remaining hours necessary for graduation, after the minimum uniform requirements, the division of concentration, and the restricted electives are satisfied, are open as free electives.

On or before the date announced for the spring registration every Sophomore in the General Group should designate his division of concentration and his major department, and arrange under the guidance of an instructor in the major department his program of studies for the following year. He should obtain the instructor's written approval of all courses selected in the division of concentration before submitting his program to the Dean for final action. In like manner, upperclassmen will recheck their courses in their divisions of concentration each year with representatives of their major departments.

GROUP II

Business Administration

This group is designed for students who enter college with the purpose of engaging in some form of business activity after graduation. The required work consists of the minimum uniform requirements and the courses specified below.

The following arrangement of specified courses is recommended for students electing this group:

Freshman Year: Economics 11,* Mathematics 3-4, or equivalent.
Sophomore Year: Economics 51-52, 57-58, Political Science 61-62.
Junior Year: Economics 138,† 143.
Senior Year: Economics 153, 181-182.

In addition to the courses specified above, a student in this group must elect twenty-four semester hours from other courses in the Department. Six semester hours of this elective work shall be selected from courses

* This course is recommended but not required.
† With the permission of the Department, students specializing in accounting may substitute for this course one in that subject.

in the two-hundred group offered for Seniors and Graduates. With the permission of the Chairman of the Department students planning to take the examination to qualify as Certified Public Accountants may be released from this requirement.

All elective work in economics must be approved in writing by the Director of Undergraduate Studies.

GROUP III

Religion

This group is designed for students who plan to enter the ministry or other religious work as a vocation after graduation. The required work consists of the minimum uniform requirements and the courses specified below.

The following arrangement of specified courses is recommended for students electing this group:

Freshman Year: Religion 1-2, History 1-2.
Sophomore Year: Religion (6 hours), Economics 51-52 or Political Science 61-62, English Literature (6 hours).
Junior Year: Religion (6 hours), Psychology 91, English 151-152.
Senior Year: Religion* (6 hours), Sociology (6 hours), Philosophy (6 hours).

GROUP IV

Pre-Medical

Students qualifying for college graduation in this group must complete, in addition to the minimum uniform requirements, forty-two semester hours in a division of concentration (subject to the regulations of the General Group), twelve semester hours of restricted electives in one or both of the other divisions with at least six semester hours in one department, and certain specific requirements as noted below. These specific requirements may count as part of the divisional concentration (if the division of concentration is the Natural Sciences) or they may count as restricted electives if another division of concentration is chosen. The foreign language should be German or French, preferably the former and including German 107-108.

The normal division of concentration for students electing this group is that of the Natural Sciences, but the student may elect any one of the other two divisions for his divisional concentration. In this case, it may be necessary for him to complete more than one hundred and twenty semester hours for his degree. If, however, the student chooses the Natural Sciences for his division of concentration, he is urged to take as much elective work as possible in the Divisions of the Social Studies and the Humanities.

Completion of English 1 and 2; Chemistry 1-2, 61-70, 151-152; Physics 51-52; and Zoology 1-2 will satisfy the minimum course recommendations

* Not more than six semester hours of electives may be taken in the Department of Religion.

of the Association of American Medical Colleges. Many medical schools advise the completion of additional courses in these and other subjects. The pre-medical student should ascertain the requirements of the particular medical school that he expects to attend.

The following arrangement of the courses in science is suggested:

Freshman Year: Chemistry 1-2, Zoology 1-2, Mathematics 7-8, or equivalent.
Sophomore Year: Chemistry 61-70, Physics 51-52.
Junior Year: Chemistry 151-152.

GROUP V

College Teaching

This group is designed for students who plan to do work in a graduate school and teach in college. The required work consists of the minimum uniform requirements and the work specified below:

French and German through the second year of college work.* Since one of these languages may be taken through the third year of college work to satisfy the minimum uniform requirements, only the one not taken thus must be chosen to meet the conditions of this group.

Twenty-four semester hours of work in the major subject, exclusive of work in the subject offered primarily for Freshmen; twelve semester hours of work in related subjects approved by the student's Departmental Adviser; twelve semester hours in education, philosophy, and psychology, or in any one, not including any courses in secondary or elementary school methods.

Elective work, not to be taken in the major department, sufficient to complete the one hundred and twenty semester hours necessary for graduation.

At least twelve semester hours of the work taken in the Senior year must be in courses open only to Seniors and Graduates.

GROUP VI

Public School Teaching

This group is designed for two classes of students: (a) those who plan to teach in secondary schools; (b) those who plan to teach in elementary schools.

The required work consists of the minimum uniform requirements and the requirements listed under one of the classes below, according to whether the student expects to teach in a secondary school or in an elementary school.

CLASS A: SECONDARY SCHOOL TEACHING

Students in this class are required to take:

Eighteen semester hours in education of which three semester hours may be in general psychology. The work in education must include three semester hours in directed observation and practice teaching, three semes-

* Greek or Latin may be substituted for either French or German.

ter hours in educational psychology, and three semester hours in secondary education.

Six semester hours, three each, in materials and methods, in two fields of high-school teaching.

Work in the subject matter of the two subjects the student intends to teach, sufficient to satisfy the minimum requirements as listed in the table below:

English, twenty-four semester hours, to include the six of required work in composition, six in English literature, and six in American literature.
French, eighteen semester hours, based on the usual two units for admission.
German, Spanish, and Greek, the same requirements as for French.
History, eighteen semester hours, including six each in American, ancient and medieval, and modern European history, and six semester hours of economics or political science. It is recommended to prospective teachers of history and related subjects that they take elective work in sociology, geography, and at least a semester each in economics and political science.
Latin, eighteen semester hours based on the traditional four units for admission.
Mathematics, fifteen semester hours.
Music, thirty semester hours.
Physical Education, fifteen semester hours.
Science, thirty semester hours, including elementary courses in biology, chemistry, physics and geography or geology.

A student may prepare to teach only one high-school subject by taking a major of twenty-four semester hours in that subject (physical education excepted) in addition to the general required work in Class A, the required work in education and psychology, and the specifically required work in directed observation and materials and methods in the subject chosen. In physical education in the Woman's College the requirement for a major is thirty semester hours including three or four semester hours each of comparative anatomy and physiology.

It is recommended that the elective work, sufficient to complete the one hundred and twenty semester hours for graduation, be chosen in the two subjects the student is preparing to teach and in the Division of Social Science, provided the total amount of work taken in any department may not exceed the total allowed in Group I.

Students who are preparing to teach are warned to read carefully the certification rules of the state in which they intend to teach and to advise fully with the Dean before electing courses in subjects they are preparing to teach. They are further warned to take their professional courses in the order outlined by the Department of Education, reserving for their Senior year courses in materials and methods and in directed observation and practice teaching.

At least twelve semester hours of the work in the Senior year must be in courses open only to Seniors or to Seniors and Graduates.

CLASS B: ELEMENTARY SCHOOL TEACHING

Students in this class conform to the general requirements of Group I. Education is treated as a major department, and the Social Science Division as the division of concentration. In addition to the general requirements of Group I, the following specific requirements must be met:

	S.H.
English	3 or 6
American History and Government	6 or 9
Geography	6
Physical Education and Hygiene	6

These special requirements are reckoned in each case as a part of the appropriate division of concentration. The student in Class B should take Education 8 in the first semester of his Freshman year and advise with the Department as to an appropriate course for the spring semester. In all other particulars his course follows the General Group for the first year.

The following arrangement of courses is recommended for Freshmen entering the Teaching Group. The work for the following years will be arranged by the Department of Education.

Freshman Year

	S.H.
English	6
Foreign Language	6
Science	8
History or elective*	6
Education or elective†	6
	32

GROUP VII

Pre-Legal

This group is designed for students who expect to study law after graduation. The required work consists of the minimum uniform requirements‡ and the courses specified below.

The following arrangement of specified courses is recommended:

Freshman Year:	Introductory Course in History (1-2 if taken in the Freshman year or 51-52 if taken thereafter).
Sophomore Year:	Economics 51-52, Political Science 61-62.
Junior Year:	Economics 143, History 105-106, Psychology 91, and either English 151 or 152.
Senior Year:	Six semester hours of Economics from courses approved for Seniors.

The electives should be chosen largely from the work offered by the following departments: Philosophy, Sociology, Economics, History, Psychology, and Political Science. The total work (required and elective) in any one department may not exceed thirty semester hours.

At least twelve semester hours of the electives in the Senior year must be Senior-Graduate courses.

* History is an alternate with economics or political science in the minimum requirements when the student presents two units of history for admission.

† Students in Class B should take Education 8 the first semester and follow it with the course approved by the Department of Education the second semester; students in Class A follow the same plan or take any of the electives authorized for the General Group.

‡ When there is overlapping, the minimum uniform requirements are accepted as a part of the special requirements in this group.

GROUP VIII

Social Service

This group is designed for students who plan after graduation to pursue professional studies in order to engage in practical social welfare work, such as family welfare, child welfare, public welfare, probation and parole, and similar forms of neighborhood and community work. The required work consists of the minimum uniform requirements and the courses specified below. Zoology is recommended for the required course in science.

The following arrangement of specified courses is recommended for students electing this group:

Freshman Year: History 1-2.
Sophomore Year: Economics 51-52, Sociology 91-92 or Sociology 101.
Junior Year: Philosophy (6 hours), Political Science (6 hours), Psychology 91, Sociology (6 hours).
Senior Year: Economics (6 hours), Psychology (6 hours), Sociology (6 hours).

The electives should be chosen mainly from history, economics, political science, education, sociology, philosophy, psychology, and religion.

The subjects required for the Junior and Senior years may be transposed according to the courses available in any particular year.

GROUP IX

Honors

Purpose: Students who have revealed their desire and demonstrated their ability to do a type of intellectual work higher than that normally required for the liberal arts degree may apply to read for Honors during their last two college years. The aim of the Honors studies is to permit qualified undergraduates to attain a knowledge, both comprehensive and intensive, of a particular field, or fields, under conditions most stimulating to individual initiative and independence.

General Rules:

I. A student who has sixty-two semester hours of work to his credit and who has completed the minimum requirements for graduation may apply to read for Honors. A departmental committee may, however, permit students to take as much as twelve hours of the minimum uniform requirements in the Junior and Senior years provided that these are offset by the same number of hours in related subjects taken previously in courses not open primarily to Freshmen.

II. The Departmental Honors Program constitutes the work of the Honors student during the Junior and Senior years. This program shall be the equivalent of sixty semester hours of work.

III. The minimum amount of work that may be taken in the major department shall be the equivalent of twenty-four semester hours, and the maximum shall be the equivalent of thirty-six semester hours.

IV. The related work, which constitutes at least two fifths of the Honors program, that is, the equivalent of twenty-four semester hours, must be distributed among not less than two departments, unless the departmental committee gives special permission for the student to take his related work in one department.

Departmental Honors: Honors courses are available to qualified students in the following departments: Botany, Chemistry, Economics, Education, English, French, German, Greek, History, Mathematics, Physics, Psychology, Religion, and Zoology.

An undergraduate wishing to qualify for Departmental Honors usually enters the General Group during the Freshman year. At the close of the Sophomore year he may apply to read for Honors in a particular department. The requirements for admission to candidacy for Honors vary in the different departments. The student should consult the special requirements set forth in the "Departmental Honors Program." The Departmental Committee determines the eligibility of the various applicants for Honors reading within the department.

Transfer students from colleges of approved standing may be admitted to candidacy for Honors provided they enter here as Sophomores with high records in their chosen field of work. They should consult by April 15 the Honors Adviser of the Department in which they are interested.

The work required of students in the Departmental Honors Group consists of (1) the minimum uniform requirements; (2) the program of Honors for the Junior and Senior years; and (3) elective work sufficient to complete the semester hours necessary for graduation.

Study in a Department Honors course always includes work in regular open courses. In both Junior and Senior years it may, and usually does, also include work under special instruction (seminarial or tutorial) and assignments of independent reading.

All candidates who complete satisfactorily the minimum uniform requirements, a Departmental Honors course, and elective work sufficient to earn the necessary hours for graduation will be recommended by the Departmental Committee to the Dean of the College for graduation with Honors.

For brief outlines of the various plans for Departmental Honors the student should see the section, "Departmental Honors Program," among the offerings of each department listed above. Students are also urged to consult the Honors Adviser of the department in which they are primarily interested. A list of these Advisers follows:

Botany: Miss Addoms
Chemistry: Mr. Vosburgh
Eductaion: Mr. Holton
English: Mr. Irving
French: Mr. Webb
German: Mr. Vollmer
Greek: Mr. Peppler
History: Mr. Laprade
Mathematics: Mr. Elliott
Physics: Mr. Hatley
Psychology: Mr. Zener
Religion: Mr. Myers
Zoology: Mr. Johnson

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE

The general regulations governing the requirements for the degree of Bachelor of Science are the same as those for the degree of Bachelor of Arts. Students selecting this group must complete the following course of study:

	S.H.
English 1-2	6
French and German (second college year)	12-24
Mathematics	6
Natural Science	8
Economics, History, or Political Science	6
Religion	6
Major and related work	48
Free electives to make a total of	120

English 1-2, 6 s.h.—A Freshman who satisfies the Department of English of his superior abiltiy in English composition may substitute another English course for English 1-2. A Freshman whose scores in the placement tests are too low to justify his admission into English 1 is required to earn credit for English L before he may enter English 1.

French and German.—Bachelor of Science candidates must complete at least the second college year, or equivalent as determined by examination, of both French and German.

Mathematics, 6 s.h.—A candidate for the Bachelor of Science degree must complete Mathematics 7 and 8 or Mathematics 7 and 50 or the equivalent. Mathematics 50 is recommended for students who plan to take Mathematics 51-52. Mathematics 8 is recommended for those who plan not to take Mathematics 51-52. Placement tests in algebra are administered to all entering students planning to take courses in mathematics. Students found deficient in algebra must substitute Mathematics 1 and 2 for Mathematics 7.

Natural Science, 8 s.h.—This requirement can be satisfied by courses in one of the natural sciences, namely, Botany, Chemistry, Geology, Physics, and Zoology. The courses must include laboratory work, and may not be counted as part of the major or related work.

Economics, History, or Political Science, 6 s.h.—A student who does not present for entrance two acceptable units of history (exclusive of other social work) must take a course in history; otherwise he has his choice of Economics, History, or Political Science. The courses that will satisfy this requirement are listed under "Courses of Instruction."

Religion, 6 s.h.—The courses that will satisfy the requirement in Religion are listed in this bulletin under "Courses of Instruction."

Major and Related Work, 48 s.h.—Major and related work consists of forty-eight semester hours in the Division of Natural Sciences. This work must be selected from the Departments of Botany, Chemistry, Geology, Mathematics, Physics, Psychology, and Zoology. The major work consists of not less than twenty-four semester hours in one department, the choice of courses being subject to the approval of the department. The major work does not include courses primarily open to Freshmen. The related work is taken in at least two other departments and is selected subject to the approval of the major department. It may not include more than one course primarily open to Fresh-

men. A minimum of eight semester hours of the total of forty-eight must be in laboratory science. Further information concerning the requirements for the major and related work in the various departments will be found under "Courses of Instruction."

Free Electives.—In addition to the above, the student must elect sufficient courses to complete, with an average grade of "C," the one hundred and twenty semester hours necessary for graduation.

The total amount of work that a student, other than an Honors student, may take in any one department toward the Bachelor of Science degree is limited to a maximum of thirty-six semester hours.

No Senior may take for credit any course primarily open to Freshmen, and no Junior may take for credit more than one course primarily open to Freshmen. A list of these courses is published under "Courses of Instruction."

Not more than one course of six or eight semester hours of credit in final fulfillment of the requirements for the degree of Bachelor of Science in Duke University may be taken in another institution of approved standing, and this course must first be approved by the head of the department concerned and by the Dean.

On or before the date announced for the spring registration every Sophomore in this group should select his major department in the Division of Natural Sciences and arrange under the guidance of an instructor in the major department his program of studies for the following year. He should obtain the instructor's written approval of all courses selected in the division before submitting his program to the Dean for final action. In like manner, upperclassmen will check their courses in the division each year with representatives of their major department.

COMBINED ACADEMIC-PROFESSIONAL COURSES

The provision whereby a Senior may elect the work of the first year in a professional school of the University shall apply solely to eligible students in Trinity College or the Woman's College. The privilege of completing a combined course for the degree is conditioned upon admission to the professional school at the close of the Junior year. A student thus admitted registers as a Senior in the College and as a first-year student in the professional school.

ACADEMIC-LAW COMBINATION

A student who has completed, with an average grade of "C" or higher, ninety-two semester hours of undergraduate work, including the minimum uniform requirements for the degree of Bachelor of Arts and the work of the Junior year in the division of concentration may, with the approval of the Dean of the College, transfer to that school and be eligible for the degree of Bahelor of Arts from Duke University upon the satisfactory completion therein of the work of the first year.

It is understood that this provision shall apply solely to eligible Duke University undergraduates, and that not less than the full first-year's work of the Law School will be acceptable for credit towards the bachelor degree.

No single discipline or program of study can be described as the best preparation for the study of law. There are various methods of approach to legal study, and students differ with respect to the undergraduate studies by which they profit most in preparing themselves for law school.

Completion of the undergraduate work necessary to qualify for the Academic-Law Combination does not insure admission to the Duke University School of Law, nor impose any restriction whatever upon its freedom in selecting students for admission.

The student who does not desire to avail himself of the Academic-Law Combination above set forth may, nevertheless, enter the Law School when he has satisfactorily completed two* years of academic study and has met the other entrance requirements of that school.

Students wishing information concerning admission to the School of Law are invited to consult with the Dean of that school.

ACADEMIC-FORESTRY COMBINATION

A student who has completed with an average grade of "C" or higher the program of study given below may, with the approval of the Dean of the College, transfer to the School of Forestry and be eligible for the degree of Bachelor of Science from Duke University upon the satisfac-

* Admission after two years of college work is granted during the period of the war.

tory completion of one year's work. It is understood that this provision shall apply solely to eligible Duke University undergraduates. The professional degree of Master of Forestry may be obtained on the satisfactory completion of an additional year in the School of Forestry.

The program of studies in preparation for admission to the School of Forestry is divided into four parts: (1) a group of studies required of all students; (2) courses required in a selected division of concentration; (3) additional elective courses sufficient to make a total of at least 92 semester hours of credit; and (4) summer field work in surveying and forest mensuration as described below.

The studies required of all students, of which the first four, together with six semester hours of a language, should ordinarily be taken in the Freshman year, are as follows:

	S.H.
Botany 1-2	8
Chemistry 1-2	8
English 1-2	6
Engineering Drawing 1-2	4
Modern Foreign Language*	12-18
Mathematics 7-8	6
Physics 1-2	8
Economics 51-52	6
Geology 51	4

At the end of the Freshman year each student shall select a division of concentration. One of the following programs of concentration is recommended:

Botany. Botany 51, 151, 156, one additional course in Botany, and Zoology 1.

Chemistry. Chemistry 61, 70, and 151-152; and Botany 151.

Economics. Economics 57-58, two additional semester courses in economics, and Political Science 61-62.

A student who does not select one of the above programs must complete the work of the Junior year in a division of concentration.

Summer field work is required of all students in the School of Forestry. This program of 12 weeks, preferably to be taken upon completion of the Junior year, includes Civil Engineering S110 (Plane Surveying), 3 s.h.; Forestry S150 (Forest Surveying), 5 s.h.; and Forestry S151 (Forest Mensuration), 4 s.h.

Completion of the first three years of work toward the Bachelor of Science degree does not insure admission to the Duke University School of Forestry, nor impose any restriction whatever upon its freedom in selecting students for admission.

Students wishing information concerning admission to the School of Forestry are invited to consult with the Dean of that School.

* The requirement is the same as for the Degree of Bachelor of Science, except that Spanish may be substituted for French.

COURSES OF INSTRUCTION, TRINITY COLLEGE AND THE WOMAN'S COLLEGE

Note: *Courses primarily for Freshmen are numbered from 1 to 49; those primarily for Sophomores are numbered from 50 to 99; those primarily for Juniors and Seniors from 100 to 199; those primarily for Seniors and Graduates from 200 to 299. The amount of credit for each course is given in semester hours following the description of the course.*

The designation (W) *or* (E) *indicates that the course is to be given on the West Campus or on the East Campus.* The designation* E *means Engineering;* L, *Law;* DS, *Divinity School. When this designation precedes a course number, the course is not approved for graduate credit.*

Odd-numbered courses are offered in the fall semester, and even-numbered courses are offered in the spring semester. Double numbers indicate that the course is a year course and must normally be continued throughout the year if credit is received. A student must secure written permission from the instructor in order to receive credit for either semester of a year-course.

COURSES OPEN PRIMARILY TO FRESHMEN

Art 1-2
Botany 1-2
Chemistry 1-2, 3-4
Economics 11
Education 1, 4, 6, 8
English 1-2
French 1-2, 3-4
German 1-2, 3-4
Greek 15
Health Education 41
History 1-2
Latin 1-2-3, 4, 15, 16, 41, 42
Mathematics 1, 2, 3-4, 7, 8, 9-10, 15
Music 11-12
Philosophy 48
Physics 1-2
Political Science 21-22
Religion 1-2
Spanish 1-2, 3-4
Zoology 1-2

AESTHETICS, ART, AND MUSIC

PROFESSOR KATHARINE GILBERT, CHAIRMAN; ASSISTANT PROFESSOR SUNDERLAND, DIRECTOR OF UNDERGRADUATE STUDIES IN ART; MISS AVERILL, SUPERVISOR OF FRESHMAN INSTRUCTION IN ART; ASSISTANT PROFESSORS BRUINSMA AND HALL; MISS LEIGHTON, VISITING LECTURER IN ART; MESSRS. BROADHEAD AND HULL; MRS. GILI

AESTHETICS

FOR SENIORS AND GRADUATES

201-202. **The Philosophy of Art.**—Study of the various phases of the aesthetic experience and forms of beauty with analysis of examples. Particular attention will be given to recent writers on aesthetics. **6 s.h.** (E)
PROFESSOR GILBERT

213-214. **History of Aesthetics.**—The tracing of the historical solutions of traditional problems, such as the nature of imitation, symbolism, the ugly, the sublime, and the comic, the relation of art to nature, to morals, and to economics, the relation of the particular arts to each other, the standard of taste. **6 s.h.** (E) PROFESSOR GILBERT
[Not offered in 1944-45]

* Because of wartime changes in the program of the University the designations E and W are more likely to be an accurate record for the last academic year than a guide for 1944-1945.

ART

1-2. History of Art.—The survey course for Freshmen is designed to help the new student in relating the different manifestations of art in each period to the civilization which produced them. **6 s.h.** (E) MISS AVERILL

51-52. History of Art.—The survey course for upperclassmen treats each art as a unit, relating it to its background and its companion arts wherever possible, but leaving many of the problems of correlation to the initiative of the student. Not open to Freshmen nor to students who have had course 1-2. *Credit for a single semester will be given only to students electing it during their last semester as undergraduates.* **6 s.h.** (E) MISS AVERILL

53-54. Theory of Representation and Design.—A consideration of the general theory of tone relations, of the different modes of representation, and the theory of design. The course aims to give a thorough understanding of the principles governing the art of drawing and painting as practiced in the past and at the present time. One lecture and four laboratory hours. *Open only to students who are enrolled in, or have already completed, a year-course in the Department.* **6 s.h.** (E) MISS LEIGHTON

55-56. Laboratory in Design.—Training in the planning and execution of designs for particular purposes and places, as for wall spaces, book covers, illustrations, and etc. *Open only to students who are enrolled in, or have already completed, a year-course in the Department and after consultation with the instructor. Credit may be given for a single term but not for the second without the first.* 1 semester hour credit for 3 laboratory hours.
MISS LEIGHTON

94. (Old number, 93) **American Art.**—A study of the development of the Arts and Crafts of North America from the Colonial Period to the present day. The course will consider the formation of the cultural tradition of the United States in architecture, sculpture, and painting with some reference to the minor arts of furniture, silver, and glass. **3 s.h.** (E) MISS AVERILL

101. Mediaeval Architecture.—A survey of Christian architecture in the Near East and Eastern and Western Europe from the beginnings of the mediaeval style in the late classic period to its disintegration in the fifteenth century. Open without prerequisite to Seniors and Juniors, and to Sophomores recommended by the Dean. **3 s.h.** (E) ASSISTANT PROFESSOR SUNDERLAND
[Not offered in 1944-45]

102. (Old number, 121) **Mediaeval Painting and Sculpture.**—A study of painting and sculpture in Western Europe from the late classic period through the fourteenth century. Open without prerequisite to Seniors and Juniors, and to Sophomores recommended by the Dean. **3 s.h.** (E)
[Not offered in 1944-45] ASSISTANT PROFESSOR SUNDERLAND

103. Renaissance and Baroque Architecture: Italy.—A study of architecture in Italy from Brunelleschi to Bernini, developed through the works of individual architects and their schools. Open without prerequisite to Seniors and Juniors, and to Sophomores recommended by the Dean. **3 s.h.** (E)
ASSISTANT PROFESSOR HALL, ASSISTANT PROFESSOR SUNDERLAND

104 Renaissance and Baroque Architecture: Spain and the North.—An inquiry into the extension of Italian Renaissance and Baroque influence in architecture, and its modification under local conditions elsewhere in Europe. Prerequisite: 1-2 or 51. **3 s.h.** (E) ASSISTANT PROFESSOR HALL
[Not offered in 1944-45]

105. **European Architecture since 1700.**—An analysis of the sources of contemporary European architecture in the historic revival styles and counter-revolts, technical invention and new structural materials, industrial expansion, and social planning. Open without prerequisite to Seniors and Juniors, and to Sophomores recommended by the Dean. **3 s.h.** (E)
ASSISTANT PROFESSOR HALL, ASSISTANT PROFESSOR SUNDERLAND

106. **Architecture of the Americas.**—A study of building in the Western Hemisphere from the pre-Columbian cultures to the present, with emphasis on the architecture of the United States since the Revolution. Prerequisite: 1-2 or 51. **3 s.h.** (E) ASSISTANT PROFESSOR HALL
[Not offered in 1944-45]

110. (Old number, 120) **English Architecture.**—A survey of architecture in Great Britain from the Roman occupation to the present. Prerequisite: 1-2 or 51. **3 s.h.** (E) ASSISTANT PROFESSOR HALL
[Not offered in 1944-45]

123. (Old number 107)— **Renaissance Painting and Sculpture: Italy.**—A study of Italian painting and sculpture, mainly in Florence, from the end of the fourteenth through the fifteenth century. Open without prerequisite to Seniors and Juniors, and to Sophomores recommended by the Dean. **3 s.h.** (E)
ASSISTANT PROFESSOR SUNDERLAND

124. (Old number 109) **Baroque Painting.**—An analysis of the character and tendencies of seventeenth-century painting in Italy. Open without prerequisite to Seniors and Juniors, and to Sophomores recommended by the Dean. **3 s.h.** (E) ASSISTANT PROFESSOR SUNDERLAND

125. (Old number, 108) **Renaissance Painting and Sculpture: The North.**—A study of painting and sculpture in the Netherlands in the fifteenth and sixteenth centuries. Open without prerequisite to Seniors and Juniors, and to Sophomores recommended by the Dean. **3 s.h.** (E)
ASSISTANT PROFESSOR SUNDERLAND

130. (Old number, 110) **Painting since 1700.**—An investigation of the development of painting from the eighteenth century through Picasso. Open without prerequisite to Seniors and Juniors, and to Sophomores recommended by the Dean. **3 s.h.** (E) ASSISTANT PROFESSOR SUNDERLAND

COURSES OFFERED IN OTHER DEPARTMENTS ACCREDITED IN THIS DEPARTMENT

Greek 141-142. Greek Art.

Greek 247-248. Greek Archaeology.

Psychology 202. Psychology of Aesthetics.

DEPARTMENTAL MAJOR

Prerequisites: 1-2 or 51-52.
Major Requirements: 53-54, and eighteen hours in courses chosen from the departmental offerings, or from courses in other departments accredited in this Department.

MUSIC

THEORY

11-12. **Fundamentals of Music.**—The elements of harmony, rhythm, and form. The visual and aural recognition of scales, intervals, triads, and seventh chords and their functions in relation to the system of tonality. Harmonization of melodies; development of rhythmic discrimination. A general background for advanced courses in the department. Students will meet with the instructor in small groups an additional hour each week. Two sections throughout the year. **6 s.h.** (E) MR. HULL

71-72. Analysis of Form.—The evolution of the polyphonic and homophonic forms from the Middle Ages to modern times. The functions of phrases, sentences, periods, in the construction of various harmonic forms. Detailed analysis of representative works. Prerequisite: Music 11-12. **6 s.h.** (E) MR. HULL

[Not offered in 1944-45]

111-112. Harmony.—The principles of composition from the standpoint of the composer. Proficiency in harmonization of melodies, modulation, ornamentation, and original work in the smaller forms is required. Continuation of aural training. Prerequisite: Music 11-12. **6 s.h.** (E) MR. HULL

113-114. Polyphonic Composition.—Composition in the Gregorian plain song, the modal counterpoint of the sixteenth century, the tonal counterpoint of the early eighteenth century, and the polyphony of the late nineteenth century and of the modern period. Various polyphonic forms are used with especial attention to canon and fugue. Works of Palestrina, Purcell, Bach, Brahms, and others are studied as patterns for composition. Prerequisite: Music 11-12. **6 s.h.** MR. BROADHEAD

121-122. Orchestration and Conducting.—The history, technical possibilities, and orchestral use of the instruments of the modern orchestra. Instrumental and some vocal scores will be studied and arrangements made by the class. One laboratory period a week will be devoted to actual participation in or observation of the orchestra. Prerequisite: Music 11-12 or consent of the instructor. **6 s.h.** (E) MR. HULL

HISTORY AND CRITICISM

81-82. Introduction to Musical Literature.—An historical survey of the evolution of music from ancient times to the present. An elementary study of the basic principles of form and of musical aesthetics to serve as a basis of criticism. **6 s.h.** (E) MR. BROADHEAD

131-132. Symphonic Literature.—The historical background and development of music for the orchestra. A critical and analytical study of orchestral suites, overtures, concerti, symphonies, and symphonic poems from early instrumental combinations of the seventeenth century to the present. Prerequisite: Music 81-82, or 11-12, or consent of instructor. **6 s.h.** (E) MR. HULL

131 may be taken for credit without 132.

197. Bach.—Study and aesthetic appreciation of the music of Bach with consideration of the convergence in his works of the musical ideas of his predecessors. **3 s.h.** (E) MR. BROADHEAD

[Not offered in 1944-45]

198. Beethoven.—Study and aesthetic appreciation of the music of Beethoven disclosing his position at the fulcrum of the classic and romantic styles of composition. **3 s.h.** (E) MR. BROADHEAD

[Not offered in 1944-45]

MUSIC EDUCATION

101. Vocal Methods.—A study of materials and methods of teaching vocal music in public schools. Treatment of the child voice, rote singing, chord singing, voice testing, balance, organization, and supervision. Observation of work done in the public schools. High-school glee club literature Prerequisite: Music 11-12. **3 s.h.** (E) INSTRUCTOR TO BE ASSIGNED

102. Instrumental Methods.—A study of materials and methods of teaching orchestral instruments, organization, supervision. Observation of work in the public schools. Literature for band and orchestra. Prerequisite: Music 11-12. **3 s.h.** (E) INSTRUCTOR TO BE ASSIGNED

151-152. Fundamentals of Music for Education Students.—Primarily designed for students who desire to qualify for the State Teaching Certificate. The elements of harmony, rhythm, form, and a study of material and methods of music teaching in the first eight grades. Not open to students who have had Music 11-12. **6 s.h.** (E) INSTRUCTOR TO BE ASSIGNED

APPLIED MUSIC

Instruction in organ, piano, violin, viola, and voice is available to Duke University students. Membership in the Chapel Choir, the Glee Clubs, Bands, and Symphony Orchestra is open to those who can qualify.

Organ.....Mr. Edward Hall Broadhead
Piano.....Mr. Edward Hall Broadhead
Violin and Viola.....Mr. Robert Hull
Vocal Ensembles.....Mr. and Mrs. J. Foster Barnes
Orchestra and Chamber Music.....Mr. Robert Hull

DEPARTMENTAL MAJOR

In Music Theory:

Prerequisite: Music 11-12.

Major Requirements: Music 61-62, 81-82, 111-112, and six semester hours of general music electives.

In Music History:

Prerequisite: Music 11-12.

Major Requirements: Music 81-82, 131-132, 197-198, and six semester hours of general music electives.

In Music Education:

The Department of Music has set up the following minimum requirements within the thirty hours of credit required by the North Carolina Department of Public Instruction for the Music Teaching Certificate: Music 11-12, **6 s.h.**; Music 81-82, **6 s.h.**; Music 101, 102, **6 s.h.**; music electives, **12 s.h.**

Each candidate must demonstrate his ability to play simple accompaniments and hymns at sight, and must be a member in good standing of at least one University musical organization (Band, Orchestra, Choir, or Glee Club) for a minimum of two years.

The major requirements above are in addition to the professional requirements of the North Carolina Department of Public Instruction which are common to all certificates. This certificate qualifies a person for both high-school and elementary school teaching.

For required Education courses refer to the Department of Education.

BOTANY

PROFESSOR BLOMQUIST, CHAIRMAN; ASSISTANT PROFESSOR OOSTING, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR ANDERSON, SUPERVISOR OF FRESHMAN INSTRUCTION; ASSOCIATE PROFESSOR ADDOMS, SUPERVISOR OF FRESHMAN INSTRUCTION (WOMAN'S COLLEGE); PROFESSORS BEAL AND WOLF; ASSOCIATE PROFESSORS HARRAR AND KRAMER; ASSISTANT PROFESSOR PERRY; AND ASSISTANTS

1. General Botany.—An introduction to the structure and life-processes of seed plants and the environmental factors influencing their distribution. Laboratory, discussions, and field trips. Three two-hour periods. **4 s.h.** (W & E) STAFF

2. General Botany.—A survey of the plant kingdom with emphasis on reproduction, and an introduction to identification. Three two-hour periods. Prerequisite: Botany 1. **4 s.h.** (W & E) STAFF

51. Culture and Propagation of Plants.—Experimental studies of the processes involved in growth, and the application of this knowledge to the selection, growth, and propagation of plants. Prerequisite: one year of botany. **4 s.h.** (E) ASSOCIATE PROFESSOR ADDOMS

52. Plant Identification.—Practice in the identification of local plants, especially flowering plants, and a study of the principles and rules underlying plant classification. Laboratory, lectures, and field trips. Prerequisite: one year of botany. **4 s.h.** (W) PROFESSOR BLOMQUIST

55. Morphology and Anatomy of Vascular Plants.—A comparative study of representative ferns and seed plants, including vegetative and reproductive structures. Prerequisite: one year of botany. **4 s.h.** (W)
ASSISTANT PROFESSOR OOSTING

101. Principles of Heredity.—The basic principles of heredity and their significance. Lectures, three hours; laboratory, two hours; conference (attendance optional), one hour. Laboratory work includes experimental breeding of the fruit fly. May be taken as a lecture course without laboratory. Prerequisite: one (high-school or college) course in biology, botany, or zoology. High-school or college algebra recommended. **3 or 4 s.h.** (W)
ASSISTANT PROFESSOR PERRY

103. General Bacteriology.—Prerequisite: one year of botany or zoology, or equivalent. **4 s.h.** (W), second and third semester; (E), second semester.
PROFESSOR WOLF

104. The Structure and Identification of Lower Plants.—A study of representative examples of the more important groups of algae, fungi, mosses and liverworts, including collection, identification and classification of common forms. Offered in alternate years. Prerequisite: one year of botany. **4 s.h.** (W) PROFESSOR BLOMQUIST

151. Introductory Plant Physiology.—The principal physiological processes of plants, including water relations, synthesis and use of foods, and growth phenomena. Prerequisite: Botany 1, 2 or equivalent; one year of chemistry recommended. **4 s.h.** (W) ASSOCIATE PROFESSOR KRAMER

156. Plant Ecology.—The principal factors affecting plants and plant communities as they exist in different environments. Laboratory, lectures, and field trips. Prerequisites: Botany 1, 2 and 52, or equivalent. **4 s.h.** (W)
ASSISTANT PROFESSOR OOSTING

202. Genetics.—The principles of heredity, their cytological basis, and their bearing on other fields of biology. Laboratory work involves experimental breeding of the fruit fly and interpretation of data from the breeding of plants. Offered in alternate years. Prerequisites: one year of botany or zoology, or equivalent, and college algebra. **4 s.h.** (W)
ASSISTANT PROFESSOR PERRY

203. Plant Cytology.—A study of the structure and organization of plant cells in relation to growth, reproduction, and especially heredity. Offered in alternate years. Prerequisite: one year of botany. **4 s.h.** (W)
[Not offered in 1944-45] ASSISTANT PROFESSOR ANDERSON

204. Advanced Plant Anatomy.—The structure of vegetative and reproductive organs of seed plants, including a consideration of seedling anatomy. Specific reference is made to plants of economic importance. Offered in alternate years. Prerequisite: Botany 55 or equivalent. **4 s.h.** (W)
ASSOCIATE PROFESSOR ADDOMS

216. **Botanical Microtechnique.**—Studies in methods of preparing temporary and permanent miroscopical slides; theory of staining; the use of the microscope, especially microscopical measurements; drawing, and photomicrography, botanical photography, and lantern slides. Prerequisite: two semesters of botany. **4 s.h.** (w) ASSOCIATE PROFESSOR ADDOMS

221. **Structure and Classification of Fungi.**—Prerequisite: two semesters of botany. **4 s.h.** (w) PROFESSOR WOLF

225-226. **Special Problems.**—Students with adequate training may do special work in the following fields:

a. Bacteriology, Mycology, and Plant Pathology. PROFESSOR WOLF

b. Cytology. ASSISTANT PROFESSOR ANDERSON
[Not offered in 1944-45]

c. Ecology. ASSISTANT PROFESSOR OOSTING

d. Genetics. ASSISTANT PROFESSOR PERRY

e. Morphology and Anatomy of Higher Groups.
ASSOCIATE PROFESSOR ADDOMS AND ASSISTANT PROFESSOR OOSTING

f. Morphology and Taxonomy of Lower Groups. PROFESSOR BLOMQUIST

g. Physiology. ASSOCIATE PROFESSORS ADDOMS AND KRAMER

h. Plant Microchemistry. ASSOCIATE PROFESSOR ADDOMS

i. Taxonomy of Higher Groups. PROFESSOR BLOMQUIST

252. **Advanced Plant Physiology.**—The physicochemical processes and conditions underlying the physiological processes of plants. Prerequisite: Botany 151 or equivalent; organic chemistry recommended. **4 s.h.** (w)
ASSOCIATE PROFESSOR KRAMER

255. **Advanced Taxonomy.**—A study of the historical background of plant taxonomy, modern concepts and systems of classification, nomenclatorial problems and the taxonomy of specialized groups. Prerequisite: two years of botany, including Botany 52 or equivalent. **4 s.h.** (w) PROFESSOR BLOMQUIST

256. **Field Ecology.**—An ecological survey of local vegetation, including theory and practice in the use of instruments for precise habitat studies, and analysis of community and successional relationships. Offered in alternate years. Prerequisites: Botany 1, 2, and 52 or equivalent. **4 s.h.** (w)
ASSISTANT PROFESSOR OOSTING

FOREST BOTANY

224. **Forest Pathology.**—Special reference to diseases of forest trees. Prerequisites: Botany 1, 2. **3 or 4 s.h.** (w) PROFESSOR WOLF

253-254. **Dendrology.**—Nomenclature, classification, and identification of woody plants with special reference to species indigenous to southeastern United States and other important forest regions of temperate North America. Laboratory and field work. Prerequisite: one year of botany. **4 s.h.** (w)
PROFESSOR BEAL

Related courses which may be counted toward a major in botany. Zoology 110. Introduction to Genetics. **2 s.h.** (w) DR. JOHNSON

NAVY V-12 COURSES

***B1 and B2. Biology I and Biology II.**—Two lecture-recitation periods and two laboratory periods per week. **8 s.h.**

DEPARTMENTAL MAJOR

Prerequisites: Botany 1 and 2.

Major Requirements: A minimum of twenty-one hours of work including courses 52, 55, and 104. The remaining hours may be selected from any other courses in the Department for which the student is eligible, subject to the approval of the Departmental Adviser.

DEPARTMENTAL HONORS PROGRAM

I. *Prerequisites:* Botany 1-2. A year course in each of three other sciences acceptable to the Departmental Committee. Some of these may be taken concurrently with the Honors work.

II. *Honors Work:*

a. Botany.
   1. Scheduled courses. At least 5 courses (18-20 semester hours) beyond Botany 1-2.
   2. Reading Courses and Problems, chiefly in the Senior year. Nine semester hours. In addition to scheduled courses, each Honors student will take reading courses in such fields as History of Botany and Theories of Biology; or he may take reading courses in special fields; or he may undertake a special problem; or he may carry on both reading and a problem. This work will count as nine semester hours and will extend through a year at least. The student will report to his Adviser regularly for conference on this work. He may be asked to prepare written reports on the reading courses, and he must make a report on his problem.

b. Philosophy—6 semester hours.

c. Electives in Botany or in other departments, subject to the approval of the Departmental Committee.

III. *General Honors Examination:* In the spring semester of the Senior year, each student must pass a general examination on the entire field of his Honors work. The Examining Committee consists of the Departmental Committee and such Advisers as have been concerned with his Honors work. The student must present a written report upon his problem and such written reports upon his reading as may be required, before he is permitted to take the general examination.

CHEMISTRY

PROFESSOR GROSS, CHAIRMAN; PROFESSOR VOSBURGH, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR HILL, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS BIGELOW, LONDON, AND WILSON; ASSOCIATE PROFESSORS HAUSER AND SAYLOR; ASSISTANT PROFESSORS BROWN AND HOBBS; DR. BRADSHER; AND ASSISTANTS

1-2. General Inorganic Chemistry.—Lectures, recitations, and laboratory work on the elementary principles of chemistry and on the occurrence, prepration, properties, and uses of the elements and their compounds. It is desirable, though not required, that students taking this course shall have taken elementary physics either in high school or in college. One lecture, two recitations, and three laboratory hours, throughout the year. **8 s.h.**
(W & E) ASSISTANT PROFESSOR HILL WITH PROFESSOR WILSON; ASSOCIATE PROFESSOR SAYLOR; ASSISTANT PROFESSORS BROWN AND HOBBS; DR. BRADSHER; AND ASSISTANTS

* B1 and B2 may be substituted for Botany 1-2 or Zoology 1-2.

61. **Qualitative Analysis.**—A study of the reactions of electrolytes in solution as applied to the qualitative analysis of mixtures of inorganic compounds. One lecture, one recitation, and six laboratory hours. Prerequisites: Chemistry 1-2 or 3-4 and algebra. **4 s.h.** (w)

ASSOCIATE PROFESSOR SAYLOR; PROFESSOR VOSBURGH; [Not offered in 1944-45] ASSISTANT PROFESSOR HOBBS; AND ASSISTANTS

70. **Quantitative Analysis.**—A study of the theory and technique of inorganic gravimetric and volumetric analysis. One lecture, one recitation, and six laboratory hours. Prerequisite: Chemistry 61. Analytic geometry and college physics are desirable but not required. **4 s.h.** (w)

ASSOCIATE PROFESSOR SAYLOR; PROFESSOR VOSBURGH; [Not offered in 1944-45] ASSISTANT PROFESSOR HOBBS; AND ASSISTANTS

131-132. **Advanced Quantitative Analysis.**—Laboratory exercises in the quantitative analysis of complex materials and in physicochemical measurements, such as potentiometric titration, pH measurements, photometric methods of analysis, and other instrumental methods. Six laboratory hours. Prerequisites: Chemistry 70 and Physics 51-52 or equivalent. **4 s.h.** (w)

PROFESSOR VOSBURGH AND ASSOCIATE PROFESSOR SAYLOR

135. **Theory of Analytical Chemistry.**—The application of chemical theory to analytical processes, supplementing Chemistry 70 or C3. Prerequisites: Chemistry 70 or C3 and Chemistry 131 (or 132); the latter may be taken concurrently. **1 s.h.** (E) PROFESSOR VOSBURGH

151-152. **Organic Chemistry.**—An introduction to the study of the compounds of carbon. Both the aliphatic and the aromatic series are dealt with and the lectures are illustrated by selected laboratory experiments. Two lectures, one recitation, and three laboratory hours. Prerequisites: Chemistry 61 and 70. Course 151 is prerequisite for 152. **8 s.h.** (w)

PROFESSOR BIGELOW; ASSOCIATE PROFESSOR HAUSER; ASSISTANT PROFESSOR BROWN; DR. BRADSHER; AND ASSISTANTS

[Not offered in 1944-45]

153-154. **Intermediate Chemistry Laboratory.**—Special laboratory exercises of a more advanced nature than given in courses 70 and 151-152. Required of candidates for Honors in chemistry and for the B.S. degree with major work in chemistry and open to others with special permission of the Department. **2 or 4 s.h.** (w)

PROFESSOR BIGELOW AND OTHER MEMBERS OF THE STAFF

[Not offered in 1944-45]

155-156. **Organic Chemistry.**—A shorter introduction to the compounds of carbon than Chemistry 151-152. Two lectures or recitations and three laboratory hours. Prerequisites: Chemistry 61 and 70. **6 s.h.** (w)

PROFESSOR BIGELOW; ASSOCIATE PROFESSOR HAUSER; ASSISTANT PROFESSOR BROWN; DR. BRADSHER; AND ASSISTANTS

[Not offered in 1944-45]

173-174. **Honors Seminar.**—One hour a week discussion based on assigned reading. Required of all candidates for Honors in chemistry in both Junior and Senior years. **2 s.h.** (w) PROFESSOR VOSBURGH

[Not offered in 1944-45]

215-216. **Advanced Inorganic Chemistry.**—A study of modern theories of valence and molecular structure; also of inorganic compounds, particularly the less common types, the colloidal state of matter and the phase rule, illustrated by suitable laboratory preparations. Prerequisites: Chemistry 70 and 151-152. Chemistry 261-262, Physics 59-60 or 213-214, and ability to read German are desirable. **6 s.h.** (w)

PROFESSOR VOSBURGH AND ASSISTANT PROFESSOR HILL

[Not offered in 1944-45]

233-234. Instrumental Analysis.—Experiments in the use of various physical measuring instruments in chemical analysis. Three laboratory hours. Prerequisites: Chemistry 70 and 261-262. **2 s.h.** (w)
PROFESSOR VOSBURGH AND ASSOCIATE PROFESSOR SAYLOR

236. Theory of Analytical Chemistry.—A study of such topics as precision and errors, theories of precipitation and titration, oxidation and reduction and others, illustrated by typical analytical methods, including some physico-chemical methods. One lecture. Prerequisites: Chemistry 70 and 261-262. **1 s.h.** (w)
PROFESSOR VOSBURGH

241. Physiological Chemistry.—A study of the chemistry of human physiology. Clinical aspects of the subject are treated with reference to the need of prospective medical students. Two recitations and six laboratory hours. Prerequisites: Chemistry 70 and 151-152. Course 261-262 is desirable though not required. **4 s.h.** (w)
PROFESSOR WILSON AND ASSISTANT
[Not offered in 1944-45]

242. Metabolism.—Open to students who have completed course 241 or its equivalent, and who have a reading knowledge of German. Lectures and collateral reading deal with the probable fate of foodstuffs in the body, the nitrogen balance, energy requirement, nutritive ratios, vital factors, and ductless glands. The laboratory work consists mainly of blood analysis under both normal and pathological conditions. The laboratory or lectures may be taken separately. Two lectures, credit **2 s.h.**, and 6 laboratory hours, credit **2 s.h. 4 s.h.** (w)
PROFESSOR WILSON AND ASSISTANT
[Not offered in 1944-45]

253-254. Advanced Organic Chemistry.—A continuation of Chemistry 151-152, including discussion of the theories of organic chemistry. The laboratory work will include qualitative organic analysis, together with preparations of the more difficult type, requiring reference to the original literature. Two lectures and three or six laboratory hours. Prerequisites: Chemistry 151-152 or equivalent and a reading knowledge of German. **6 or 8 s.h.** (w)
PROFESSOR BIGELOW; ASSOCIATE PROFESSOR HAUSER; AND ASSISTANT PROFESSOR BROWN

261-262. Physical Chemistry.—Fundamentals of general theoretical chemistry illustrated by selected laboratory experiments. Two recitations and three laboratory hours. Prerequisites: Chemistry 70, 151-152, Physics 1-2 or equivalent. Mathematics 8 or 51-52 is required except by special permission of the Department. In exceptional cases, and with the permission of the Department, graduate students may offer other advanced science courses in place of some of these prerequisites. Undergraduates are admitted to this course only by permission of the Director of Undergraduate Studies. **6 s.h.** (w)
PROFESSOR GROSS; ASSOCIATE PROFESSOR SAYLOR; AND ASSISTANT PROFESSOR HOBBS

265-266. Chemical Physics, Statistical Theory, Principles and Applications.—General introduction to statistical methods and applications to chemical problems; solution theory, reaction velocity, changes of state, quantum statistics and the metallic state. Undergraduates are admitted to this course only by permission of the Director of Undergraduate Studies. Lectures, conferences, and assigned problems. **8 s.h.** (w)
PROFESSOR LONDON

267-268. Chemical Physics. Theoretical Aspects of Atomic and Molecular Structure.—Theories of the chemical bond; atomic and molecular forces. Undergraduates are admitted to this course only by permission of the Director of Undergraduate Studies. Lectures, conferences, and assigned problems. **8 s.h.** (w)
PROFESSOR LONDON

271. Introduction to Research.—Lectures on the use of chemical literature, research methods, recording and publication of results, preparation of theses, and other topics. One lecture. **1 s.h.** (w)

PROFESSORS BIGELOW, GROSS AND VOSBURGH

273-274. Seminar.—Required of all graduate students in chemistry. One hour a week discussion. **2 s.h.** (w)

PROFESSORS BIGELOW, GROSS AND VOSBURGH; ASSOCIATE PROFESSORS HAUSER AND SAYLOR; ASSISTANT PROFESSORS BROWN, HILL AND HOBBS; AND DR. BRADSHER

275-276. Research.—The aim of this course is to give instruction in methods used in the investigation of original problems. It is open to Seniors who have had courses 70, 151-152, and who are taking 261-262. Nine hours a week and conferences. **3 or 6 s.h.** (w)

PROFESSORS BIGELOW, GROSS, LONDON, VOSBURGH AND WILSON; ASSOCIATE PROFESSORS HAUSER AND SAYLOR; ASSISTANT PROFESSORS BROWN, HILL AND HOBBS; AND DR. BRADSHER

NAVY V-12 COURSES

C1-C2. General Inorganic Chemistry.—May be substituted for Chemistry 1-2. **8 s.h.**

C1a-C2a and C6. General Inorganic Chemistry and Engineering Materials.—May be substituted for Chemistry 1-2. **8 s.h.**

C3. Quantative Analysis.—May be substituted for Chemistry 70. Prerequisite: Chemistry 2 or C2. **4 s.h.**

C4-C5. Organic Chemistry.—May be substituted for Chemistry 151-152. Prerequisite: Chemistry 70 or C3. **8 s.h.**

DEPARTMENTAL MAJOR

A. For the degree of A.B.

Prerequisites: Chemistry 1-2, Mathematics 7-8 (or equivalent).

Major Requirements: Chemistry 61-70, 151-152 and 261-262. With the permission of the Department other chemistry courses giving a total of not less than 6 s.h. credit may be substituted for Chemistry 261-262.

B. For the degree of B.S.

Prerequisites: Chemistry 1-2, Mathematics 7-50 (or equivalent).

Major Requirements: Chemistry 61-70, 131-132, 151-152, 153-154, 261-262. The required work in the Science Division must include Mathematics 51-52 and Physics 51-52 (or equivalent).

DEPARTMENTAL HONORS PROGRAM*

Prerequisites: Chemistry 61-70; Mathematics, 6 s.h., and Physics 51-52 or equivalent.

Honors Program: Chemistry 131-132, 151-152, 153-154, 173-174, 261-262, and 275-276; Mathematics through integral calculus; Physics, Botany, Geology, or Zoology, 6 s.h.; electives, subject to the approval of the Departmental Honors Committee, 20 s.h. (or enough to satisfy the requirements for graduation).

Chemistry 153-154 is a special laboratory course in which there is individual attention to and supervision of the work of each student.

Chemistry 173-174 is a seminar primarily for Honors students of both Junior and Senior years. The purpose is to give practice in the use of chemical literature and the oral presentation of assigned topics.

* Not offered in 1944-45.

In Chemistry 275-276 an experimental research project is carried out under the direction of a member of the Staff, the object being to gain acquaintance with the aims and methods of research. A written report on the research is required.

A general examination in chemistry is given at the end of both Junior and Senior years.

ECONOMICS AND BUSINESS ADMINISTRATION

PROFESSOR HOOVER, CHAIRMAN; PROFESSOR DE VYVER, DIRECTOR OF UNDERGRADUATE STUDIES; PROFESSORS HAMILTON, RATCHFORD, SPENGLER AND VON BECKERATH; ASSOCIATE PROFESSORS BLACK AND LESTER; ASSISTANT PROFESSORS BLUM, DELAPLANE, EITEMAN, LANDON, LEMERT, SHIELDS, SMITH, SPRINGER AND WELFLING; DRS. BERRY, GREGORY, AND KEECH; MR. VAN VOORHIS; MESSRS. BRYSON AND MILLER (PART-TIME)

The Department offers instruction in general economics, business administration, and accounting. The general course in economics affords a survey of the whole field of economic thought and lays the foundation for specialized study in various branches of the subject. Advanced courses are offered in theoretical and applied economics.

A special group of studies is provided for candidates for the Bachelor of Arts degree who are definitely looking forward to a business career at the conclusion of their college course. While this group is mainly composed of liberal rather than technical studies, it gives opportunity in the Junior and Senior years for specialized study in such subjects as money and banking, public and corporation finance, investments, railroad and water transportation, economic geography, marketing, insurance, industrial management, accounting, and business statistics.

ECONOMICS

51-52. Principles of Economics.—6 s.h. (E & W)
PROFESSORS DE VYVER AND SPENGLER; ASSISTANT PROFESSORS BLUM, EITEMAN, LANDON, SMITH, AND WELFLING; DR. GREGORY; MR. VAN VOORHIS

This course must be passed by all students planning to elect further courses in Economics and Business Administration.

One section of Economics 51 will be offered during the spring semester, and one section of Economics 52 will be offered during the fall semester.

103. Transportation.—Essential features, problems, and competitive positions of rail, highway, air, and inland-water transportation, with most emphasis on rail transportation. Special attention is given to the economic significance of transportation, and to cost factors, rates and their economic effects and regulation. **3 s.h.** (W)
ASSISTANT PROFESSOR LANDON AND DR. GREGORY

107. Conservation.—A study of the extent and distribution of our natural resources and their service in regional and national development. Emphasis will be placed upon both the natural and human factors involved in the genesis of current problems. Term reports dealing with problems of special interest to those participating will be considered. **3 s.h.** (W)
[Not offered in 1944-45] ASSISTANT PROFESSOR LEMERT

138. Business Statistics.—A course in elementary statistics designed principally for students of economics and business administration. The material is also of interest to those specializing in engineering, forestry, political science, and sociology. The course deals with collection of statistical data, construction of statistical tables and charts, and a brief study of the fundamental statistical techniques. Offered both semesters. **3 s.h.** (E & W)
ASSISTANT PROFESSORS SMITH AND WELFLING

Open to Juniors, and to Sophomores in the second semester. Not open to Seniors except with the permission of the Director of Undergraduate Studies. No credit is given for this course to a student who takes Mathematics 74.

[Note: The attention of students who are taking, or who propose to take, courses 143, 144, or 158 is called to Mathematics 71, "Mathematics of Investment." This course is recommended as an elective for Sophomores or Juniors.]

139. Advanced Business Statistics.—This course is designed for students who wish more through preparation in statistics, either for use in business or to meet civil service requirements. Special emphasis is placed on index numbers, time series analysis, and correlation methods. Prerequisite: Economics 138 or the equivalent. **3 s.h.** (E & W) ASSISTANT PROFESSOR SMITH

143. Corporation Finance.—Principles and problems in the financial organization of corporations; the study of corporate securities, the management of capital, the distribution of earnings; industrial combinations; insolvency and reorganization. Offered both semesters. **3 s.h.** (E & W)
ASSISTANT PROFESSOR EITEMAN; ASSOCIATE PROFESSOR BLACK; DR. GREGORY

Though not a prerequisite, Economics 57-58, Principles of Accounting, is recommended to students electing this course.

Special sections of Corporation Finance will be offered for students who have had Economics 57-58.

144. Investments.—A study of the role which the security markets play in American economic life. Attention is devoted to the various types of securities, to the mechanics of their purchase and sale, to the factors which affect and determine their market prices, and to the relationship of stock speculation to the banking system and to general prosperity. Prerequisite: Economics 57-58 and 143. **3 s.h.** (E & W)
ASSISTANT PROFESSOR EITEMAN; ASSOCIATE PROOFESSOR BLACK

153. Money and Banking.—Principles and problems of money and banking, including the history, theory, practices, and policies of American financial institutions. **3 s.h.** (E & W)
PROFESSOR RATCHFORD; ASSOCIATE PROFESSOR LESTER; ASSISTANT PROFESSORS BLUM AND WELFLING

154. Advanced Money and Banking.—An intensive study of monetary theory, central-bank policies, monetary and banking reform, and postwar financial problems. **3 s.h.** (E & W)
PROFESSOR RATCHFORD; ASSOCIATE PROFESSOR LESTER; ASSISTANT PROFESSORS BLUM AND WELFLING

169. Economics of Consumption.—Economic problems of the family. Factors determining choice; commercial and legal standards for consumers' goods; consumer credit and co-operation; income and standards of living. **3 s.h.** (E)
ASSISTANT PROFESSOR SMITH

186. Latin-American Economics.—Facts and factors in the economic structure and growth of the Latin-American nations; population, labor productivity, and standards of living; problems of industry, agriculture, and mining; transportation and public utilities; monetary and fiscal policies; the migration of capital and the role of the United States as a creditor nation; economic thought and institutions. **3 s.h.** (W) ASSISTANT PROFESSOR SMITH

187. Public Finance.—This course deals with public expenditures, public revenues, public debts, and financial administration. **3 s.h.** (W)
PROFESSOR RATCHFORD; DR. GREGORY

215. Economic Systems.—A study of alternative economic systems. In addition to an analysis of communism, anarchism, and the variants of socialism, the course will include a consideration of other proposed modifications of the existing economic order. PROFESSOR HOOVER

217. Population, Resources, and Standards of Living.—A critical survey of the economic laws of returns and of pre- and post-Malthusian population theory; consideration of the relation between natural increase and the laws of economic distribution and of the effects of changes in the rate of natural increase upon various classes of industry and upon employment; examination of the factors which govern population growth and of current population trends; analysis of international economic and political problems which are founded upon population pressure; consideration of the economic and the biological aspects of differential birth-rates. **3 s.h.** (w) PROFESSOR SPENGLER

218. Business Cycles.—A study of the various types of cyclical movements in industry, with special emphasis on cycle theory and methods of controlling or modifying business cycles. **3 s.h.** (w)
ASSOCIATE PROFESSOR LESTER; ASSISTANT PROFESSOR EITEMAN

230. Public Debts in the United States.—A study of the characteristics of public credit as shown by the experience of national, state, and local governments in the United States. Topics considered include: forms, methods, and purposes of borrowing; effects of the contraction and repayment of debts on governmental fiscal policies, the banking and credit system, and business activity; methods of controlling or limiting debts; refunding and adjustment procedures; defaults and repudiations. Prerequisite: Economics 187 or consent of instructor. **3 s.h.** (w) PROFESSOR RATCHFORD
[Not offered in 1944-45]

231. The Economic History of Modern Europe.—A study of the economic development of Europe since the sixteenth century to the present, treating such topics as the guilds, mercantilism, money, banking, crises, the industrial revolution, the interrelationships of government and business, and the economic consequences of war. The historical backgrounds of present economic problems will be emphasized. **3 s.h.** (w) PROFESSOR HAMILTON

232. The Economic History of the United States.—A study of the agricultural, industrial, commercial, and financial progress of the United States from Colonial times to the present day. Special attention will be devoted to mass production, business cycles, great fortunes, and the relationships between government and business. **3 s.h.** (w) PROFESSOR HAMILTON

233. State and Local Finance.—A study of expenditures, taxation, and financial administration in state and local governments with emphasis on current problems. Special attention will be given to research methods and materials and to the financial relations between state and local governments. Prerequisite: Economics 187 or consent of instructor. **3 s.h.** (w)
PROFESSOR RATCHFORD

234. Federal Finance.—A study of the expenditures, revenues, and financial administration of the government of the United States, with emphasis on current problems. Special attention given to budgetary procedure, corporate and individual income taxes, and the financial relations between Federal and state governments. Prerequisite: Economics 187 or consent of instructor. **3 s.h.** (w) PROFESSOR RATCHFORD

237-238. Statistical Methods.—A study of statistical methods appropriate for dealing with problems in business and the social sciences. In addition to developing more thoroughly the subjects considered in *Business Statistics*, the following methods will be considered: simple, multiple, partial, and curvilinear

correlation; curve fitting; probability; frequency distributions; and reliability of estimates. Prerequisite: Economics 138 or consent of the instructor. **6 s.h.** (w)

[Not offered in 1944-45]

239. **Prices.**—A theoretical and historical study of the forces governing commodity prices and wages. In 1944-45 special attention will be devoted to the control of wartime inflation and postwar deflation. **3 s.h.** (w)

PROFESSOR HAMILTON

241-242. **Value and Distribution.**—This course is a critical survey of the leading contemporary explanations of price formation and of the determination of interest, rent, wages, and profits. **6 s.h.** (w) PROFESSOR SPENGLER

245. **Problems of Modern Industrialism.**—This course first surveys technological efficiency and market organization as limiting factors in the determination by industrial management of the rational requirements of plant organization. External political and social forces are then introduced into the complex to show modern industrialism as a phase of mature capitalism. Against the background of modern capitalism, the issue and trends of public policy with respect to economic organization in America and Europe are compared and appraised, with special emphasis on the problems of industrial demobilization and on industrial reconstruction after the war. **3 s.h.** (w)

PROFESSOR VON BECKERATH

253. **Labor Problems.**—An examination of present-day labor problems followed by an intensive study of methods used by employers and workers in meeting those problems. **3 s.h.** (E) PROFESSOR DE VYVER

256. **Labor Legislation.**—A study of the relations of the state to labor problems with special reference to remedial legislation, and to interference in labor disputes. Prerequisite: Economics 253, or with the consent of the instructor. **3 s.h.** (w) PROFESSOR DE VYVER

[Not offered in 1944-45]

258. **Personnel Management.**—A study of the fundamental principles and problems of labor management and of collective bargaining under modern industrial conditions and under existing labor legislation. Prerequisite: Economics 253. **3 s.h.** (E) PROFESSOR DE VYVER

260. **Social Insurance.**—A consideration of the economic and social problems involved in workmen's compensation laws, unemployment insurance, old-age pensions, and health insurance for workers. Particular attention will be given to the present Federal and state social security legislation. **3 s.h.** (w)

[Not offered in 1944-45] PROFESSOR DE VYVER

265. **International Trade and Tariff Policies.**—An analysis of the theoretical principles underlying international trade with an historical study of the foreign trade and tariff policies of the United States, France, Germany, and England from the eighteenth century to the present. In addition, the course will take up possible conditions under which international trade may be resumed after this war and the organizational framework within which world trade must be resumed. **3 s.h.** (w) PROFESSOR VON BECKERATH

266. **International Finance.**—A study of the mechanism of international payment with attention to international movements of capital, the peculiarities of an inconvertible paper money regime, maldistribution of gold, and related problems. **3 s.h.** (w) ASSOCIATE PROFESSOR LESTER

[Not offered in 1944-45]

268. Competitive Versus Monopolistic Enterprise.—(1) Competition as an economic order. (2) Competition as a political order. (3) Monopoly as a disturbance of (1) and of (2). (4) What can government do for the maintenance of the competitive order? (5) What can the judiciary do for the maintenance of the competitive order? (6) What can business do for the maintenance of the competitive order? (7) Limits and difficulties of a liberal solution. (8) Short discussion of different types of compromise solutions, both in the governmental and the economic field. (9) The effects of war on competition and private enterprise. **3 s.h.** (W) PROFESSOR VON BECKERATH

270. Economics of War.—A study of the economic causes of war; the economic problems of neutrals; transition from a peace to a war economy; the cost of war and national defense; war finance through taxes, loans, and inflation; price and wage controls; rationing and priorities; the allocation of labor and resources; restrictions on shipping and exchange; the technique and results of economic warfare; war and technology; demobilization and unemployment; the return to a peace economy; debts, reparations, and indemnities; and postwar depressions. **3 s.h.** (E & W)
PROFESSOR HAMILTON; ASSOCIATE PROFESSOR LESTER; ASSISTANT PROFESSORS BLUM AND WELFLING

280. Advanced Economic Problems.—This course is designed to afford students an opportunity to integrate the economic principles which they have acquired in specialized courses, through the application of these principles to current economic problems. Offered both semesters. **3 s.h.** (E & W)
PROFESSOR RATCHFORD; ASSISTANT PROFESSOR WELFLING

Required of all Seniors majoring in Economics and open with permission to Seniors in the Business Administration Group.

BUSINESS ADMINISTRATION

A. ACCOUNTANCY

57-58. Principles of Accounting.—Elementary principles of single proprietorship, partnership, and corporation accounting. Supervised laboratory periods will be assigned. **6 s.h.** (E & W)
ASSOCIATE PROFESSOR BLACK; ASSISTANT PROFESSOR SHIELDS; MR. VAN VOORHIS

171-172. Advanced Accounting.—Advanced accounting theory and practice applied to the managerial problems of valuation and operation in corporations, consolidations, mergers, and liquidations. Open to students who have completed Accounting 57-58. **6 s.h.** (E & W)
ASSOCIATE PROFESSOR BLACK; ASSISTANT PROFESSOR SHIELDS

173-174. Auditing, Theory and Practice.—This course prepares the manager to investigate the operation of his own business, the prospective investor to determine the value of the proposition, the student to practice the public accounting profession. The first semester deals with detail and balance sheet audits and the second semester with special investigations. Problems, working papers, and reports. Prerequisite: Economics 171-172 and permission of the instructor. **6 s.h.** (W) ASSISTANT PROFESSOR SHIELDS

175-176. C. P. A. Review.—Thorough practice in classroom to prepare candidates for the Certified Public Accountant examination. The object is to train students to apply accounting principles and to work in classroom under substantially the same conditions as in the examination room. Practical accounting problems, auditing analysis, and theory of accounts. Prerequisite: Economics 171-172 and permission of the instructor. **6 s.h.** (W)
ASSOCIATE PROFESSOR BLACK

177. Income Tax Accounting.—A study of the accounting principles involved in the management of business enterprise under the requirements of Federal income tax laws. Practice is given in the preparation of tax returns. Prerequisite: Economics 171-172 or permission of the instructor. **3 s.h.** (W)
ASSISTANT PROFESSOR SHIELDS

178. Accounting Systems.—The design and installation of accounting systems and the presentation of accounting reports to management in basic manufacturing industries, mercantile establishments, financial institutions, and municipalities. Prerequisite: Economics 171-172 or permission of the instructor. **3 s.h.** (W) ASSISTANT PROFESSOR SHIELDS
[Not offered in 1944-45]

180. Governmental Accounting.—Accounting principles and methods used in the control and administration of governmental units. Emphasis is placed upon state, county, and municipal governments. A study is made of the accounting system of the Federal Government. Prerequisite: Economics 57-58 and permission of the instructor. **3 s.h.** (W) ASSISTANT PROFESSOR SHIELDS

275-276. Advanced Industrial Accounting and Management.—This course traces the ways and means of executive control through statistics and industrial accountancy. Emphasis is put upon the economics of overhead costs. A complete practice set of cost accounting is worked by each student during the course. Prerequisite: Economics 171-172 or permission of the instructor. **6 s.h.** (W) ASSOCIATE PROFESSOR BLACK; ASSISTANT PROFESSOR SHIELDS

B. COMMERCE AND INDUSTRY

11. Economic Geography.—A course in regional economic geography embracing the study of the world's major geographic regions, their present and potential production of food and raw materials for manufacture, and the relationships between these factors and the development of manufacturing industries, cities, and commerce. Offered both semesters. **3 s.h.** (E & W)
ASSISTANT PROFESSOR LEMERT

105. Industrial Management.—A study of the organization and management of industrial production, with emphasis upon the principles governing location and plant design, the planning and control of materials and methods, and general price policies. Offered both semesters. **3 s.h.** (E & W)
ASSOCIATE PROFESSOR BLACK; DR. GREGORY

109. The Economic Geography of Latin America.—This course involves comprehensive study of the resources and people of Mexico, the West Indies, and Central and South America. Special emphasis is placed upon the possibilities and limitations of increases in trade between the United States and the leading Latin-American countries. **3 s.h.** (W) ASSISTANT PROFESSOR LEMERT

115. Economic Geography.—A study of geographic influences consisting of location, maps and their interpretation, climate topography, soils, minerals, bodies of water, plants, animals, and the works of man. This course is required of all students in Teaching Group, Class B, and is also recommended for those intending to specialize in foreign trade or the diplomatic service. **3 s.h.** (E & W) ASSISTANT PROFESSOR LEMERT

116. Economic Geography and Industrial Organization.—A study of the economic resources of the world; the products of the agricultural and manufacturing industries: trade routes and trade centers; and the influence of geographic factors on the economic development of nations. This course is required of all students in Teaching Groups, Class B, and is also recommended for those intending to specialize in foreign trade or the diplomatic service. Prerequisite: Economics 115. **3 s.h.** (E) ASSISTANT PROFESSOR LEMERT

118. Economic Geography of the South.—A study of the agricultural, commercial, and industrial development, with special emphasis upon the expansion of Piedmont industries. **3 s.h.** (w) Assistant Professor Lemert
[Not offered in 1944-45]

120. Economic Geography of the Pacific.—The physical influences, natural resources, and economic activities of Asia, Oceania, and portions of the western coasts of North and South America with special emphasis upon their relationship to present developmnets. **3 s.h.** (e & w) Assistant Professor Lemert

158. Insurance.—The development and basic principles of insurance. This course covers such topics as business uses, policy contracts, costs, and regulation of insurance. Life and fire insurance are emphasized. Offered both semesters. **3 s.h.** (w) Dr. Gregory

168. Marketing.—The topics covered in this course include the economic importance of markets and the marketing system; marketing functions, organization, and methods; price policies; finance; speculation; market research and the planning of marketing activities; co-operative marketing; criticism of marketing and means for improvement; and regulation. **3 s.h.** (w)
Assistant Professor Landon; Dr. Gregory

181-182. Business Law.—The fundamental principles of law as applied to common business transactions. The topics presented are: contracts, agency, bailments, sales, negotiable instruments, partnerships, corporations, and bankruptcy. *For Seniors.* **6 s.h.** (e & w)
Associate Professor Black; Messrs. Bryson and Miller

184. Commercial Law for Accountants.—A review and summation of commercial law principles as they apply to accounting theory and practice. Emphasis will be placed upon the commercial law sections of the Certified Public Accountant examinations. Students are admitted to the course by permission of the instructor. *For Seniors.* **3 s.h.** (w)
Associate Professor Black

NAVY V-12 COURSES

BA1-2. Principles of Economics I and II.—May be substituted for Economics 51-52. **6 s.h.**

BA3. Money and Banking.—May be substituted for Economics 153. **3 s.h.**

BA4. Transportation.—May be substituted for Economics 103. **3 s.h.**

BA5. Accounting I.—May be substituted for Economics 57. **3 s.h.**

BA6. Accounting II.—May be substituted for Economics 58. **3 s.h.**

BA7. Statistics I.—May be substituted for Economics 138. **3 s.h.**

BA10-11. Business Finance.—Four lecture-recitation periods per week for two terms. May be substituted for Economics 143. **8 s.h.**

BA12-13. Business Organization and Management.—May be substituted for Economics 105. **8 s.h.**

BA15-16. Business Law.—May be substituted for Economics 181-182. **6 s.h.**

BA17. Elementary Cost Accounting.—May be substituted for Economics 275. **4 s.h.**

BA18. Accounting and Statistical Controls.—3 s.h.

BA19. Marketing.—May be substituted for Economics 168. **3 s.h.**

DEPARTMENTAL MAJOR

Prerequisites: Economics 51-52, Principles of Economics. 6 s.h. This course is ordinarily taken in the Sophomore year but may be taken by a selected group of Freshmen.

Major Requirements: Twenty-four semester hours in addition to Economics 51-52, to be arranged as follows:

(1) Economics 138.—Business Statistics.—3 s.h.

This course may be taken the second semester of the Sophomore year or during the Junior year. It may be taken by departmental majors in their Senior year only with permission of the Director of Undergraduate Studies.

(2) Economics 153.—Money and Banking.—3 s.h.

(3) Senior-Graduate Courses.—6 s.h.

At least six semester hours must be chosen from Senior-Graduate courses offered in Economics.

(4) Economics 280.—Advanced Economic Problems.—3 s.h.

This course is required of all majors in the Department and is also open to Seniors in the Business Administration Group. It may not be counted as part of the Senior-Graduate course requirement.

(5) Additional Course Work.—9 s.h.

In addition to the special requirements outlined under (1), (2), and (3) above, majors in the Department must elect nine semester hours from courses offered in Economics for Juniors and Seniors. Six hours of Accounting and six hours in Commerce and Industry may be counted toward the completion of this requirement.

(6) Additional work in the Department.

A minimum of twenty-four semester hours of work in the Department is required for a major in Economics. According to the general University regulations, however, majors may take additional work in the subdepartments (Accounting and Commerce and Industry) not to exceed a total in the Department and subdepartments of fifty-four semester hours.

Note: Students who take Economics 51-52 in their Freshman year may in their Sophomore year enroll in courses in the department ordinarily open only to Juniors.

EDUCATION

PROFESSOR HOLTON, CHAIRMAN; PROFESSOR PROCTOR, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR EASLEY, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS BROWNELL, CARR, AND CHILDS; ASSOCIATE PROFESSOR SCATES; VISITING ASSISTANT PROFESSOR VAN ALSTYNE; DR. WATSON; AND ASSISTANTS

Courses in the Department of Education are designed for two groups of students: (1) students with teaching experience or others who have definitely chosen teaching as their life-work, and (2) students who desire to study the school as an outstanding social institution.

Students who do not expect to teach but merely desire an understanding of the school as part of a liberal education are advised to elect such courses as 4, 8, 54, 104, and 105 for their introductory work in the Department and then to elect further work in accordance with their special interests. Students who expect to engage in the various phases of teaching should plan their courses in accordance with the general regulations for Groups V and VI as outlined in this catalogue. Students preparing for college teaching should elect courses in the history and philosophy of education and in educational psychology.

1. Orientation Course in Study and Study Habits.—A course for Freshmen whose high-school and other records indicate the need of help in working out a satisfactory method of study. The factors of study, the use of text-

books, note-taking from lectures and parallel readings, and applications of the factors of study to the daily problems of the student are among the matters considered. *Either semester.* 3 s.h. (W & E) STAFF

4. Introductory Course in History of Education.—A special section of course 54, for Sophomores and for Freshmen who have had course 8. *Either semester.* 3 s.h. (E) STAFF

6. A Study of Reading Skills.—This is a course in the psychology of reading. It is a study of individual and group problems of reading, intended to aid those who need to read more rapidly and to develop habits of reading for specific purposes. Diagnosis of reading difficulties and remedial procedure emphasized. Enrollment limited to twenty-five students. Admission by consent of instructor. Laboratory and materials fee, $2.00. *Either semester.* 3 s.h. (E) VISITING ASSISTANT PROFESSOR VAN ALSTYNE

8. The Learning Process.—A course in elementary educational psychology, offered for Freshmen and Sophomores. *Either semester.* 3 s.h. (W & E) STAFF

54. Introductory Course in History of Education.—A study of the types of educational systems and institutions evolved in Western Europe and the United States as an introduction to current educational problems. 3 s.h. (E) PROFESSORS HOLTON AND CARR

58. The Learning Process.—A special section of course 8, intended for Juniors. *Either semester.* 3 s.h. (E) DR. WATSON

68. Mental Hygiene of the School Child.—A study of personality factors as related to the adjustment and success of the school child, the foundations of motivation; typical problems of maladjustment; social heredity and its educational implications; variations in intelligence. Prerequisite: course 8 or 58. 3 s.h. (E) VISITING ASSISTANT PROFESSOR VAN ALSTYNE

83. Current Trends in American Public School Organization.—A study of current controversies and criticisms bearing on the organization and administration of the public schools, recent developments in the organization of schools, and the theories underlying these developments. 3 s.h. (E) PROFESSOR PROCTOR

101. Introduction to Teaching.—A survey of the work of the teacher based upon a general theory of the learning and teaching process. Preliminary discussion of the qualifications and training of teachers and the nature and aims of education. Development of a theory of the curriculum; discussion of the nature of subject matter as related to pupil activity; modern classroom procedure in teaching, including an introduction to educational measurements. 3 s.h. (E) PROFESSOR CARR

103. School Organization and Administration for the Classroom Teacher.—*Either semester.* 3 s.h. (E) PROFESSOR PROCTOR

Note.—Beginning with the autumn semester of 1944 certain courses—including Education 54, 58, 83, 101, and 103—will be reworked into a sequence of four courses as follows: Education 84 (Social Foundations of Education), Education 88 (Psychological Foundations of Education), Education 101 (Introduction to Curriculum and Technique of Teaching), and Education 110 (Introduction to Measurement and Research in Education). This sequence will constitute twelve required hours of the work in Education in Group VI of the "Groups of Studies" leading to the Bachelor of Arts degree. Students in Group VI should confer with the Director of Undergraduate Studies of the Department as to working this sequence into their schedules.

105. **Introduction to Educational Sociology.**—A study of social forces, processes, and values as affecting education, and the interaction of school and community. **3 s.h.** (E) PROFESSOR CHILDS

112. **Methods of Teaching and Presentation of Subject Matter in the Primary Schools.**—A study of materials and methods in the primary school subjects with special reference to reading, language, number, and the social studies; introduction to the psychology of the primary school branches; practice in using educational tests. A minimum of thirty laboratory periods of observation and practice teaching. Prerequisite: course 101. *For Seniors only.* **4 s.h.** (E) PROFESSOR CARR

A. Integrated Art in the Public School.—This course consists of three semester hours of work in materials and methods. (Required of all students completing requirements in Group VIB, Elementary School Teaching, of the "Groups of Studies for the Degree of Bachelor of Arts.") *For Juniors and Seniors.* (E) MRS. MASON

[Not offered in 1944-45, unless as many as eight students enroll.]

B. Industrial Art in the Public School.—This course consists of three semester hours of work in materials and methods. (Required of all students completing requirements in Group VIB, Elementary School Teaching, of the "Groups of Studies for the Degree of Bachelor of Arts.") *For Juniors and Seniors.* (E) MRS. MASON

[Not offered in 1944-45, unless as many as eight students enroll.]

115-116. **Secondary Education: Principles and Practice.**—The study of the nature, scope, and methods of secondary education, emphasizing fundamentals of the teaching process and exemplifying theory by practice. Sixty hours of observation work and thirty hours of supervised practice teaching required. Students preparing to teach in the junior high school are permitted to concentrate in that field. *Students must arrange their schedule to permit four hours of observation, conference, and practice teaching weekly. Since practice-teaching facilities are limited, students with superior record will be given preference in the practice teaching. No student who has not passed the work of the Junior year at Duke University with an average of at least one and one-half quality points will be permitted to do practice work. Students who have the required average in quality points must before February 1 pass with grade of "B" or better, examination in the subject they expect to teach, based upon course of study of the school in which they expect to do their practice teaching. Before entrance into practice teaching, students must complete thirty hours of observation under supervision. Their first five hours of practice must be satisfactory to the instructor directing observation and to the teacher of the class taught before they can continue the thirty hours of practice teaching required by the course. For Seniors only.* **6 or 8 s.h.** [*One section of 115 and one of 116 will be offered each semester of 1944-45.*] (E)

PROFESSOR CHILDS AND ASSISTANTS

118. **Educational Implications of Genetic Psychology.**—A course tracing the development of the individual through the stages of growth and learning, with emphasis upon early and later childhood; the development of such behavior patterns as play, language, etc.; the process of socialization; and similar material of especial significance to teachers. Prerequisite: three semester hours in psychology or educational psychology. **3 s.h.** (E)

PROFESSOR BROWNELL

122. **Methods of Teaching and Presentation of Subject Matter in the Grammar Grades.**—A study of materials and methods in the grammar grade subjects with special reference to reading, language, number, and the social studies; introduction to the psychology of the grammar grade branches; prac-

tice in the use of educational tests. A minimum of thirty laboratory periods of observation and practice teaching. Prerequisite: course 101. *For Seniors only.* 4 s.h. (E) PROFESSOR CARR

128. **Tests and Measurements in Personnel Work.**—A critical study of the principles and techniques of measurement in industrial, social, and educational personnel work. The course attempts to serve three purposes: (1) to acquaint the student, as a matter of cultural interest, with the rapidly expanding field of personnel study, (2) to provide a basis of technical training to enable the student to develop himself professionally after he enters personnel work, and (3) to provide a basis for personnel vocational orientation. 3 s.h. (W) DR. WATSON

131. **Observation and Practice Teaching.**—Open to Seniors who are enrolled in course 101. Separate work for primary and grammar grade teachers. 1 s.h. (E) PROFESSOR CARR

132. **Materials and Methods in Health Education.**—Identical with Health Education 132. 3 s.h. (W) ASSISTANT PROFESSOR AYCOCK

136. **The Teaching of High-School English.**—Identical with English 142. *For Seniors only.* 3 s.h. (E) ASSISTANT PROFESSOR JORDAN

142. **Children's Literature.**—Students enrolled will be allowed to specialize in literature of either the primary or grammar grades. *First semester.* 3 s.h. (E) PROFESSOR CARR

158. **Educational Measurements.**—A special section of 258, intended for undergraduates. Principles and technique involved in measurements in education. *First semester.* 3 s.h. (E) ASSOCIATE PROFESSOR SCATES

170. **The Social and Economic Position of Women.**—A course in vocational guidance for women counting as a general elective, but not as part of either a major or minor in Education or toward a North Carolina State teacher's certificate. The purpose of the course is to give the historical background of the changing social and economic position of women, the contributions made by outstanding women, and the vocational opportunities open to women. 2 s.h. (E) MRS. SMITH

176. **Materials and Methods in High-School Science.**—Discussion based upon lectures and collateral reading of such topics as aims, tests for values, the curriculum, classroom procedure, course and lesson planning in secondary school science. Prerequisite: at least eighteen hours of science in college. *For Seniors only. First semester.* 3 s.h. (E) ASSOCIATE PROFESSOR SCATES

185. **The Teaching of Religion and Ethics.**—Identical with Religion 193; counts as elective in Education only for those students preparing to teach religion in secondary schools. 3 s.h. (W) ASSISTANT PROFESSOR CRUM

200. **Introduction to the Philosophy of Education.**—3 s.h. (E)
[Not offered in 1944-45] PROFESSOR HOLTON

203. **Principles of School Administration.**—Prerequisite: six semester hours of courses 103 and 58 or their equivalent. 3 s.h. (E)
PROFESSOR PROCTOR

205. **Curriculum Problems in Secondary Education.**—A consideration of the aims and objectives of secondary school subjects, emphasizing practical problems of curriculum-making in the high school. 3 s.h. (E)
PROFESSOR CHILDS

206. **Sociological Foundations of the Secondary School Subjects.**—A consideration of the aims and objectives of secondary school subjects, emphasizing problems of curriculum-making. Prerequisite: general sociology or approved work in education, including course 105. *First semester.* **3 s.h.** (W)
[Not offered in 1944-45] PROFESSOR CHILDS

207. **Technique of Teaching.**—An advanced course in the teaching process, dealing with the theory underlying sound technique and applied specifically to the work of the elementary school. **3 s.h.** (E) PROFESSOR CARR
[Not offered in 1944-45]

208. **Mental Tests and Applications.**—A study of the development of intelligence testing, the concept of general intelligence, various recent applications of mental tests, and training in the giving of individual tests. Prerequisite: course 258 or six semester hours of other work in educational psychology or psychology. **3 s.h.** (E) *First semester.*
VISITING ASSISTANT PROFESSOR VAN ALSTYNE

208B. **Mental Tests and Applications.**—A continuation of course 208 intended to provide experience in the administration of mental tests and in the interpretation of data. Open only to students approved by the instructor. **2 s.h.** (E) VISITING ASSISTANT PROFESSOR VAN ALSTYNE

209. **Statistical Methods Applied to Education.**—A study of statistical methods of treating educational and social data designed to enable teacher or administrator to interpret and use the results of scientific investigations in education. **2 s.h.** (E) ASSOCIATE PROFESSOR SCATES

212. **Psychology of the Elementary School Subjects.**—A study of the psychology of learning as applied to teaching the common school subjects. **3 s.h.** (E) PROFESSOR CARR

214. **History of Education in the United States.**—A study of the development of the American public school and the interaction of higher education and the public school. **3 s.h.** (W) PROFESSOR HOLTON
[Not offered in 1944-45]

215. **Educational and Vocational Guidance.**—A survey of the literature on guidance with special reference to secondary education; a critical study of the principles and techniques used in guidance; an attempt to locate the problems most urgently in need of solution. Prerequisite: twelve semester hours in the Department, including course 105 or course 206. *Second semester.* **3 s.h.** (E) PROFESSOR CHILDS

216. **Psychological Principles of Secondary Education.**—A study of adolescence and the psychology of learning as applied to teaching the principal high-school subjects. **3 s.h.** (W) PROFESSOR CHILDS
[Not offered in 1944-45]

217. **Advanced Educational Psychology.**—A systematic survey of the field of educational psychology, required of all majors in that field. **3 s.h.** (E)
PROFESSOR BROWNELL

218. **Educational Implications of Genetic Psychology.**—Special section of course 118, intended primarily for graduate students, ordinarily not offered the same year in which 118 is given. Prerequisite: six semester hours of psychology or educational psychology. **3 s.h.** (E) PROFESSOR BROWNELL
[Not offered in 1944-45]

219. Experimental Education.—The course is designed to provide training (1) in planning, (2) in prosecuting, and (3) in reporting quantitative investigations in the field of education, more especially in the field of learning and teaching the various school subjects. *First semester.* 3 s.h. (E)
PROFESSOR BROWNELL

222. The Curriculum and Materials of the Elementary Grades.—A study of curriculum problems in the elementary schools. 3 s.h. (E) PROFESSOR CARR

225. The Teaching of History and the Social Studies.—Identical with History 211. The course counts as an elective in the Department of Education only when approved by the Department and the instructor. 3 s.h. (W)
[Not offered in 1944-45] ASSOCIATE PROFESSOR MANCHESTER

227. The Psychology of Learning: Problems.—The major problems related to the learning process will be examined, with the experimental literature bearing on them. The curves of learning and forgetting, the distribution of practice, economical methods of learning, and the transfer of training will be the major topics considered. 3 s.h. (E) ASSISTANT PROFESSOR EASLEY
[Not offered in 1944-45]

228. The Psychology of Learning: Theoretical and Experimental.—This is a continuation of course *227*. In this semester the laws of learning, the most important explanatory principles, and the major systems of the psychology of learning will be considered. Class experiments will run throughout the semester. Prerequisite: course *227* or its equivalent. *First semester.* 3 s.h. (E)
[Not offered in 1944-45] ASSISTANT PROFESSOR EASLEY

232. Elementary School Supervision.—A survey of supervision as a means of improving instruction and adapting the curriculum to child and community needs. 3 s.h. (E) PROFESSOR CARR
[Not offered in 1944-45]

233. Administrative Pupil-Accounting.—An advanced study of gradation and classification of pupils, with incidental attention to the keeping of records and the making of reports. The study includes a consideration of individual differences, promotions, acceleration, and retardation of pupils; the various plans for classification and gradation; interpreting the results of tests; and some practice in the computation of statistical measures. *Second semester.* 3 s.h. (E) PROFESSOR PROCTOR

234. Secondary School Organization and Administration.—A study of the outstanding problems of secondary school organization and administration other than the problem of gradation and classification of pupils. *First semester.* 3 s.h. (E) PROFESSOR PROCTOR

237. Investigations in Reading.—A summary of the results of the more important scientific studies in reading; interpretation of the results in terms of aims, methods, materials of instruction, testing diagnosis, and supervision; emphasis on problems requiring further investigation. 3 s.h. (E)
PROFESSOR CARR

244. Studies in the Historical Development of Public School Administration.—An advanced course devoted to the development of public school administration in the South, with especial reference to North Carolina as a type. 3 s.h. (W) PROFESSOR HOLTON
[Not offered in 1944-45]

246. The Teaching of Mathematics.—Identical with Mathematics 204. The course counts as an elective in the Department of Education only when approved by the Department and the instructor. 3 s.h. (E) PROFESSOR RANKIN
[Not offered unless enrollment justifies.]

247. **Investigations in Arithmetic.**—An analytical survey of investigations in arithmetic, with three purposes in view: (1) to examine the techniques employed with respect to their adequacy as means of solving the problems attacked; (2) to test the validity of the results announced and the values of these results for the teaching of arithmetic; (3) to locate further problems in arithmetic in need of scientific research. *Second semester.* **3 s.h.** (E)
PROFESSOR BROWNELL

253. **Legal Phases of School Administration.**—A study of judicial decisions and the development of outstanding features of statute law controlling school administration, with special emphasis upon North Carolina materials. **3 s.h.** (W) PROFESSOR HOLTON
[Not offered in 1944-45]

254. **History of Secondary Education in the United States.**—A study of historical and comparative conceptions of the secondary school, changes in American life affecting the secondary school, present status of the secondary school, current tendencies toward expansion, and the problem of state and federal aid. **3 s.h.** (E) PROFESSOR PROCTOR

258. **Educational Measurements.**—A critical study of the principles and techniques involved in measurement in education, with opportunity for individual research. Prerequisite: twelve semester hours in the Department, including a course in educational psychology. **3 s.h.** (E)
ASSOCIATE PROFESSOR SCATES

264. **Recent Movements in American Education.**—An intensive study of educational thought and practice since 1900. **3 s.h.** (W) PROFESSOR HOLTON

266. **The Teaching of High-School French.**—Identical with French 218. **3 s.h.** (W) PROFESSOR WEBB

294. **Comparative Education: Recent Movements in European Educational Systems.**—A comparative study of the school systems of the principal countries of Europe, with emphasis upon changes since the first World War. *First semester.* **3 s.h.** (E) PROFESSOR CARR

DEPARTMENTAL MAJOR

A major in the Department of Education consists of twenty-four semester hours of work above the Freshman year, not including any work listed as primarily for Freshmen, and including at least six semester hours of courses limited to Seniors or to Seniors and Graduates. Students, however, who obtain credit for courses 4 and 8 will be permitted to complete a major by taking twenty hours of additional work in the Department, provided twelve hours are courses limited to Seniors or to Seniors and Graduates. Before graduation, majors in the Department must have credit for at least one course in educational psychology, such as 8, 58, or 68, and one course in history and philosophy of education, or in educational sociology. The remainder of their work may be elected from courses listed for Sophomores, Juniors, and Seniors, provided at least six semester hours of the course work are taken from courses listed for Seniors and Graduates, and provided that not more than six semester hours may be of courses numbered below 100.

DEPARTMENTAL HONORS PROGRAM

Students may become candidates for Honors in education who have passed with grade of "B" or better in their Freshman or Sophomore years six semester hours of education.

Candidates for Honors in education are required to take in the Junior year twelve semester hours in the Department and to make an average of "B" or better on this work. The remaining work in the Junior year will be chosen

from related work and other electives with the consent of the Departmental Committee on Honors. In the Senior year, in addition to the equivalent of twelve semester hours of supervised reading in education, the candidate must elect with the approval of the Departmental Committee on Honors six semester hours of work from the courses in education offered in the 200 group, on which he is required to make a grade of "B" or better and twelve semester hours of related or other elective work.

Of the supervised reading, which shall be done under the immediate supervision of members of the Departmental Committee on Honors, the equivalent of six semester hours shall be devoted to the History of Education; the remaining six semester hours shall be devoted to Educational Psychology, or Secondary Education, or Elementary Education, or Public School Administration as the student may elect and the Departmental Committee approve. In exceptional cases, qualified students may be permitted to take six semester hours of the supervised reading during the Junior year and increase the amount of course work in the Department the Senior year.

At the conclusion of the work the student shall be given an oral examination by a committee of three, consisting of the two members of the Departmental Committee on Honors in charge of his supervised reading and another member of the Department selected by the Departmental Committee.

ENGLISH

PROFESSOR WHITE, CHAIRMAN; PROFESSOR IRVING, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR SANDERS, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS BAUM, GILBERT, GOHDES, AND HUBBELL; ASSOCIATE PROFESSORS BLACKBURN, PATTON, MITCHELL, AND WARD; ASSISTANT PROFESSORS BEVINGTON, HERRING, JORDAN, LEARY, SUGDEN, TALBERT, VANCE, WEST, AND WHITE; DRS. HARWELL AND POTEAT; MESSRS. BADENOCH, BRICE, BRYAN, FITZGERALD, AND KENNEDY; MRS. BEVINGTON

COMPOSITION

English L.—Those Freshmen whose scores in the placement tests are too low to justify their admission into English 1 are required to pass English L before they may enter English 1. **3 s.h.** DR. HARWELL AND MR. FITZGERALD

1-2. English Composition.—All Freshmen are required to take course 1 and course 2. (For exemptions, see Minimum Requirements, p. 53.)

Students who fail in English 1 or 2 must repeat the course in the following semester. Students in courses 1 and 2 who fail to make an average of "C" or better are strongly advised to earn credit for English 53 during their Sophomore year. **6 s.h.** (E & W)

ASSOCIATE PROFESSORS BLACKBURN, PATTON, AND WARD; ASSISTANT PROFESSORS BEVINGTON, JORDAN, LEARY, SANDERS, SUGDEN, VANCE, AND WHITE; DRS. HARWELL AND POTEAT; MESSRS. BRICE, BRYAN, FITZGERALD, AND KENNEDY; MRS. BEVINGTON

53. English Composition.—A course in advanced composition and grammar. Emphasis is placed first on the student's mastering the fundamental principles of English grammar and the other essentials of correct writing. Weekly themes are required. ASSISTANT PROFESSOR JORDAN

[Not offered in 1944-45]

58. English Composition.—A course in creative writing with emphasis on precision in the use of English. No textbook is used. Daily written assignments are discussed in class and are so planned as to develop the student's interest in correct English and forceful expression. **3 s.h.**

[Not offered in 1944-45] ASSISTANT PROFESSOR JORDAN

65-66. **English Composition.**—A foundation course in imaginative writing, both prose and poetry. Open to Sophomores and in special cases to Freshmen. The consent of the instructor is required. **6 s.h.**
[Not offered in 1944-45] ASSISTANT PROFESSOR SANDERS

101-102. **Advanced English Composition.**—The course attempts to teach professional and secretarial usage and to encourage fluency and accuracy in expression. Primarily for Juniors and Seniors; open also to Sophomores approved by the Dean. **6 s.h.** (W) ASSOCIATE PROFESSOR MITCHELL

103-104. **English Composition.**—A course in descriptive and narrative writing. Class discussion of students' manuscripts, supplemented by a critical evaluation of a few selected short stories and by individual conferences with the instructor. Open to Sophomores, Juniors, and Seniors. The consent of the instructor is required. **6 s.h.** (E & W) ASSOCIATE PROFESSOR BLACKBURN

107-108. **Journalism.**—The first semester is devoted to news-writing and copy-reading; the second semester to the writing of feature articles and editorials. **6 s.h.** (E & W) ASSISTANT PROFESSOR SUGDEN

109-110. **English Composition.**—Although designed primarily for students who wish to continue the work of English 103-104, this course is open to others with the consent of the instructor. **6 s.h.** (E)
ASSOCIATE PROFESSOR BLACKBURN

133. **Verse-Writing.**—The writing and criticism of original verse. Limited to not more than eight students, who must apply in writing to the instructor and submit original verse. Open to Seniors, Juniors, and exceptional Sophomores. Once a week throughout the year. **3 s.h.** (E)
PROFESSOR WHITE

DRAMATICS AND SPEECH

105-106. **Playwriting.**—In the first semester a study and analysis of the technique of the one-act play. Dramatic writing by the students is discussed in class. The second semester is an intensive period of writing and discussion, with emphasis on the development of individual style. Open to Sophomores approved by the Dean. **6 s.h.** (E) ASSISTANT PROFESSOR WEST

119-120. **History of the Theater.**—Selected plays are read for their style, subject matter, and significance; and the history of theater buildings, scenery, acting, etc., is traced. The first semester deals with Greek and Roman, and Hindu, Chinese, and Japanese drama. The second semester covers the liturgical drama of the Middle Ages, the Miracle, Mystery, and Morality plays, and the development of modern drama from the Renaissance to Ibsen. Open to Sophomores approved by the Dean. **6 s.h.** (E) ASSISTANT PROFESSOR WEST

121-133. **Play Production.**—The course aims to give an understanding of the basic principles of putting a play on the stage successfully. In the first semester a technical study of the crafts of play production, with laboratory work in designing and building scenery and in lighting. In the second semester, make-up, directing, costume, and stage management, with laboratory work in directing and make-up. Open to Sophomores approved by the Dean. **6 s.h.** (E) ASSISTANT PROFESSOR WEST

139-140. **Speaking Voice.**—In the first semester a study of the fundamental elements of good speech (diction, breathing, voice placement, and interpretation of meaning) with intensive drills. In the second semester the emphasis is on the finer points of interpretation, and the methods of developing a highly flexible and varied vocal style. Open to all undergraduates with the approval of the Dean. **6 s.h.** (E & W) ASSISTANT PROFESSOR WEST

150. Oral Interpretation of Literature.—A study of the methods by which the creative literary artist attains the aesthetic objectives of unity, harmony, balance, proportion, variety, contrast, and rhythm; with practice in the technique by which these effects can be communicated to an audience. **3 s.h.** (E)
MR. BADENOCH

151. Essentials of Public Speaking.—A basic course in public speaking, designed to give the student the poise and confidence necessary to think and speak freely before an audience. Particular attention is paid to the gathering and organization of speech materials and to oral presentation. **3 s.h.** (E & W)
MR. BADENOCH

152. Argumentation.—The principles of argumentation and debating, with special emphasis upon brief-making and practice speaking. Public questions are studied as parallel work. Prerequisite: English 151. **3 s.h.** (E & W)
ASSISTANT PROFESSOR HERRING AND MR. BADENOCH

ENGLISH AND AMERICAN LITERATURE AND LANGUAGE

55-56. Representative Writers.—The following works are studied in the first semester: Homer's *Odyssey* (T. E. Shaw's translation), Malory's *Morte Darthur,* More's *Utopia,* Shakespeare's *I Henry IV* and *King Lear,* Pepys' *Diary* (selections), and Swift's *Gulliver's Travels.* In the second semester: Fielding's *Joseph Andrews,* Boswell's *Johnson,* Goldsmith's *She Stoops to Conquer,* Sheridan's *The School for Scandal,* Hazlitt's *Essays,* Carlyle (selections), Thackeray's *Vanity Fair,* Hardy's *Far from the Madding Crowd,* Osgood's *The Voice of England* is used as a background text. Lectures, recitations, and frequent tests. **6 s.h.** (E & W)
PROFESSOR IRVING; ASSOCIATE PROFESSORS BLACKBURN AND WARD; ASSISTANT PROFESSORS BEVINGTON, SANDERS, SUGDEN, AND VANCE; AND DR. POTEAT

63-64. Introduction to English Poetry.—In the first semester Chaucer, Shakespeare, and Milton are studied; in the second, Pope, the Popular Ballads, the Romantic poets, and Tennyson and Browning. **6 s.h.** (E)
ASSOCIATE PROFESSOR MITCHELL

123-124. Shakespeare.—In the first semester plays before *ca.* 1600 are studied, with emphasis in class on five dramas (e.g., *Richard III, Romeo and Juliet, I Henry IV, As You Like It, Twelfth Night*); in the second semester plays after *ca.* 1600, with emphasis in class on *Hamlet, Othello, Lear,* and *Macbeth.* Lectures, recitations, and frequent short tests. **6 s.h.** (E & W)
ASSISTANT PROFESSOR TALBERT

125-126. English Literature, 1789-1832.—The course begins with the reading of some poetry by the Romantic forerunners. The nature and origins of the Romantic movement are studied, and its relation to the general European scene. The chief emphasis in the first semester is on the work of the older Romantics: Wordsworth, Coleridge, Southey, Scott, and Lamb. In the second semester the chief emphasis is on the work of the younger Romantics: Byron, Shelley, Keats, Leigh Hunt, Hazlitt, and DeQuincey. Informal lectures and class discussion of assigned texts. A limited amount of outside reading is required, and also some memory work. There are about four tests each semester. **6 s.h.** (E & W)
PROFESSOR WHITE, ASSOCIATE PROFESSOR PATTON, AND ASSISTANT PROFESSOR WHITE

127-128. English Prose Literature, 1832-1900.—Lectures on the prose writers of the period; close study and discussion of selected works of Carlyle, Macaulay, Newman, Mill, and Thackeray in the first semester; and in the second semester of Arnold, Huxley, Alexander Smith, Morris, Pater, and Stevenson. Collateral reading in the novels of the period with written reports on three novels each semester. **6 s.h.** (E) ASSISTANT PROFESSOR BEVINGTON

129-130. **English Novel.**—The work of the first semester covers the history of the novel through Scott; that of the second semester, from Dickens through Hardy. Lectures and book reports. **6 s.h.** (E)
ASSOCIATE PROFESSOR MITCHELL AND ASSISTANT PROFESSOR VANCE

137-138. **American Literature.**—A survey of American literature from Colonial times to the present. Selections from the works of important authors are read, from Cotton Mather to Eugene O'Neill, and whole novels by Hawthorne, Melville, James, Howells, and others. The work of the first semester ends with the Civil War period. Lectures, monthly tests, and one paper each semester. **6 s.h.** (E) PROFESSOR GOHDES AND ASSISTANT PROFESSOR LEARY

142. **Materials and Methods of Teaching High-School English.**—This course is planned to meet the requirements of the several state departments of education and the regional educational governing bodies, and serves as part of the student's general work in practice teaching. It is required in each of the states certifying college graduates who wish to teach high-school English. **3 s.h.** (E) ASSISTANT PROFESSOR JORDAN

145-146. **English Poetry, 1832-1900.**—In the first semester Tennyson and Browning are emphasized; in the second, Arnold, the Rossettis, Morris, Swinburne, Housman, and Hardy. Lectures, discussions, reports, and tests. **6 s.h.** (E) ASSISTANT PROFESSOR SANDERS

153-154. **Comparative Literature.**—Important works in European literature are read in translation and related to similar documents in English literature. In the first semester are read: nine Greek tragedies, five of Plato's *Dialogues*, Vergil's *Aeneid*, and Dante's *Divine Comedy;* in the second semester, Machiavelli, Cervantes, Molière, Voltaire's *Candide*, Goethe's *Faust*, Dostoievski's *The Brothers Karamazov*, Ibsen's plays. **6 s.h.** (E) PROFESSOR IRVING

155-156. **Contemporary Drama.**—A study of modern representative American and British drama, with special emphasis on origins, types, and styles. A few Continental plays and plays of the current and of recent seasons are included. The student learns to make critical analyses of plays and to relate them to the stage and to production. About a dozen recent plays are read or summarized in class. Students subscribe to the *Theatre Arts Monthly*. There are occasional lectures and four to five tests each semester. Open to Juniors and Seniors, and to Sophomores recommended by the Dean. **6 s.h.** (E)
ASSISTANT PROFESSOR WHITE

159-160. **English Literary Biography.**—A reading course in great biographies and autobiographies, with special emphasis on literary characters. Among those studied in the first semester are Cellini, Johnson's lives of several poets, Goethe, Southey's *Life of Nelson;* in the second semester, the autobiographies of Booker Washington, Anthony Trollope, Lincoln Steffens, Henry Adams. Tests and occasional lectures. **6 s.h.** (E) PROFESSOR WHITE
[Not offered in 1944-45]

165-166. **The Short Story in America.**—Specimens of the work of the leading short-story writers from Irving to Saroyan and Hemingway are studied. During the first semester there are also assigned readings in the short narratives of Europe from the time of Petronius to that of Balzac. The lectures begin with a survey of the antecedents of the modern short story and then concentrate on the development of the form in the United States. Monthly tests. **6 s.h.** (E) PROFESSORS HUBBELL AND GOHDES

167-168. English Prose, 1790-1830.—Selections from Burke, Godwin, Paine, Coleridge, Hazlitt, Lamb, Jane Austen, Scott, DeQuincey, and others. Special attention to the influence of the French Revolution and of French thought. Tests and a term paper each semester. **6 s.h.** (E)
ASSOCIATE PROFESSOR PATTON

FOR SENIORS AND GRADUATES

201-202. Anglo-Saxon.—In the first semester, an introduction to the language, with the reading of prose and of some of the shorter poems; in the second semester, the *Beowulf*. **6 s.h.** (E) PROFESSOR BAUM

203-204. Chaucer.—Reading and interpretation of the text: in the first semester the principal *Canterbury Tales;* in the second, the *Troilus* and the minor poems. A reading report and a term paper. **6 s.h.** (E)
PROFESSOR BAUM

205-206. Middle English.—Close study of selected texts, with attention to the development of the language and to the history of the literature from 1200 to 1400. A term paper each semester. **6 s.h.** (E) PROFESSOR BAUM
[Not offered in 1944-45]

207-208. English Literature, 1400-1550.—A survey of the period with a study of some of the special problems. **6 s.h.** (E) PROFESSOR BAUM
[Not offered in 1944-45]

209. English Literature Other than Drama, 1550-1625.—A study of the principal authors (Sidney, Spencer, Donne, Bacon) and the prevailing types (sonnet, pastoral, epigram, etc.). Lectures, written and oral reports, and a term paper. **3 s.h.** (E) PROFESSOR GILBERT

210. English Literature Other than Drama, 1625-1700.—The Metaphysical Poets, Cowley, Dryden, Butler, and the minor poets of the Restoration; and the prose of Browne, Burton, the Character Writers, Cowley, Dryden, Halifax, and Temple. Lectures and short reports. **3 s.h.** (E)
ASSOCIATE PROFESSOR WARD

215-216. Elizabethan Drama.—Careful study of one major dramatist (Jonson or Beaumont and Fletcher) and extensive reading in the other writers (Heywood, Ford, Massinger, Marlowe, Middleton) with emphasis on the nature and qualities of their work in its historical background. Exposition of plays, reports, and a term paper each semester. **6 s.h.** (E)
PROFESSOR GILBERT AND ASSISTANT PROFESSOR TALBERT

217. English Drama, 1642-1800.—The Heroic Play and the Comedy of Manners of the Restoration period; and the important plays, serious and comic, of the eighteenth century. Lectures, class discussions, and short reports. **3 s.h.** (E) ASSOCIATE PROFESSOR WARD

219-220. The Eighteenth Century.—Swift, Pope, Defoe, Addison, Steele, and others are studied in the first semester; in the second, Gray, Johnson, Boswell, Goldsmith, the letter writers, and the early Romantic poets. Lectures, oral reports, and a term paper each semester. **6 s.h.** (E)
PROFESSOR IRVING

221-222. English Literature of the Early Nineteenth Century.—A survey of the principal writers and literary monuments from 1798 to 1830; in the first semester principally Wordsworth, Coleridge, and Lamb; in the second, Shelley, Byron, Keats, and Hazlitt. Occasional lectures, frequent classroom discussions of reading assignments, written and oral reports, and a term paper each semester. **6 s.h.** (E) PROFESSOR WHITE

223-224. **English Literature of the Later Nineteenth Century.**—Some of the most important works of the period are discussed in class; the background is filled in by lectures and assigned reading. The first semester is devoted chiefly to Carlyle, Dickens, Thackeray, Tennyson, and Browning; the second semester to Arnold, Ruskin, Pater, George Eliot, Meredith, the Pre-Raphaelites, and Swinburne. A term paper each semester. **6 s.h.** (E) PROFESSOR BAUM
[In 1944-45 only 224 is offered]

227-228. **American Literature of the Colonial Period.**
[Not offered in 1944-45]

229-230. **American Literature, 1800-1870.**—The writers emphasized in the first semester are Emerson, Thoreau, and Hawthorne; in the second semester, Poe and Melville. In the first semester some attention is given also to Edwards, Franklin, Bryant, Longfellow, Holmes, Whittier, Lowell, and Parkman; and in the second semester, to Byrd, Jefferson, Freneau, Brown, Irving, Cooper, Kennedy, Simms, Timrod, and Lincoln. An oral report and a term paper each semester. **6 s.h.** (E) PROFESSOR HUBBELL

231-232. **Special Studies in American Literature.**—An intensive study of Emerson's essays and poems, in the first semester; and in the second, of Whitman's *Leaves of Grass*, with some examples of his prose. Lectures, discussions, with one test and one term paper each semester. **6 s.h.** (E)
[In 1944-45 only 232 (Whitman) will be offered; it will be given in the first semester. **3 s.h.** (E)] PROFESSOR GOHDES

233-234. **American Literature since 1870.**—Selected works of the chief writers of the period, including Whitman, Lanier, Mark Twain, James, Howells, Emily Dickinson, Crane, Dreiser, and others. The lectures deal with the social background and with the careers of the leading authors. One test and one term paper each semester. **6 s.h.** (E) PROFESSOR GOHDES

237. **Literary Criticism.**—A study of the Greek and Roman critics, in chronological order but with emphasis on their permanent value rather than on the mere history; also the Continental and English critics to about 1700. Lectures, reports, and a term paper. **3 s.h.** (E) PROFESSOR GILBERT

269-270. **Southern Literature.**—The principal writers discussed during the first semester are Byrd, Jefferson, Wirt, Kennedy, the Cooke brothers, Legaré, Simms, Timrod, Hayne, Longstreet and other humorists, and the poets of the Civil War. Considerable attention is paid to the historical and cultural background and to Northern and British authors who wrote about the South. An oral report and a term paper are required each semester. **6 s.h.** (E)
[Not offered in 1944-45] PROFESSOR HUBBELL

NAVY V-12 COURSES

E1-2. **English I and II.**—Three discussion and writing periods each week for two terms. May be substituted for English 1-2. **6 s.h.**

E3-4. **English III and IV.**—A study of notable contributions to the literature of ideas about man in his social relations. **6 s.h.**

E5. **English Literature.**—An introduction to the major works of English literature. **3 s.h.**

E6. American Literature.—An introduction to the major works of American literature. May be substituted for English 137. **3 s.h.**

For E6 one of the following is a prerequisite: E3-4, E55 or 56, or E123 or 124. E3 is offered March-July, 1944.

DEPARTMENTAL MAJOR

Prerequisites: English 1 and 2.

Requirements for the Major: A major in English consists of twenty-four semester hours of credit distributed as follows: *six* hours must be carried in English 55-56 or in English 63-64 and *eighteen* hours credit, in courses in English and American literature of the 100 or 200 group.

FORESTRY

Students without a Bachelor's degree who are preparing for work in forestry as a profession should take the courses outlined under the Academic-Forestry Combination (see pages 64-65). However, with the consent of the instructor in charge, certain forestry courses may be elected by students in other curricula provided they have had adequate preparation (see *Bulletin of the School of Forestry*).

Members of the Sophomore, Junior, and Senior classes may elect the following course:

52. Principles of Forestry.—An introduction to forestry emphasizing the economic and social importance of forests and their influence on stream flow, water supply, soil, and erosion; brief studies of individual trees and the life history of forests and their reproduction, treatment, and protection; principal forest regions and timber trees of United States; brief history of forestry in America and present-day forestry agencies. Work consists of lectures, assigned readings, and reports. **2 s.h.** (w) ASSOCIATE PROFESSOR THOMSON

[Not offered in 1944-45]

GEOLOGY

ASSOCIATE PROFESSOR BERRY

Note: The courses in Geology are given on both the *Navy* and *Woman's College schedules,* but all courses meet on the West Campus.

51. General Geology.—This course is designed to give a general view of the surface features of the earth, their origin, structure, and materials. Illustrative materials are studied in the laboratory. Excursions are made to neighboring points where the principles of the science are studied in the field. Three one-hour lectures or recitations and one three-hour laboratory. **4 s.h.** (w) ASSOCIATE PROFESSOR BERRY

52. General Geology.—This course is designed to give some knowledge of the chief events of the earth's history. Excursions will be made to suitable neighboring localities. Three one-hour lectures or recitations and one three-hour laboratory. Prerequisite: Geology 51. **4 s.h.** (w) ASSOCIATE PROFESSOR BERRY

53. Physiography.—A detailed study of the processes at work on the land surface and the topographic forms produced by them under different climatic conditions. This course includes practice in the interpretation of topographic maps. Three one-hour lectures or recitations and one three-hour laboratory. Given both semesters but not open to students with credit for Geology 51. **4 s.h.** (w) Limited to twenty-four students. ASSOCIATE PROFESSOR BERRY

101-102. Mineralogy.—This course is devoted to a study of the fundamentals of crystallography and the crystal groups, using crystal models and crystallized minerals. Followed by the systematic study of about 175 important minerals. Determinative work includes exercises on sight recognition, identification by blowpipe, and other physical and chemical tests. Excursions will be made to neighboring mineral localities. Three two-hour periods. Prerequisite: Chemistry 1-2 (can be taken concurrently). **8 s.h.** (w)
ASSOCIATE PROFESSOR BERRY

151. Economic Geology.—Study of world distribution, geologic occurrence, and uses of important mineral deposits. Three one-hour lectures or recitations and one three-hour laboratory. Prerequisite: Geology 101-102. **4 s.h.** (w)
ASSOCIATE PROFESSOR BERRY

152. Introductory Paleontology.—Systematic study of invertebrate paleontology, dealing mainly with generic characters of the fossil invertebrates and their use in identifying and correlating geologic formations. Three one-hour lectures or recitations and one three-hour laboratory. Prerequisites: Geology 51, 52, and Zoology 1. **4 s.h.** (w) ASSOCIATE PROFESSOR BERRY

DEPARTMENTAL MAJOR

Prerequisites: None for Geology 51. Chemistry 1-2 for Geology 101-102; Zoology 1 for Geology 152.
Major Requirements: Geology 51, 52, 101-102, 151, 152.

GERMAN LANGUAGE AND LITERATURE

PROFESSOR VOLLMER, CHAIRMAN; ASSISTANT PROFESSOR MAXWELL, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR WILSON, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSOR KRUMMEL; DR. SHEARS AND DR. ROSE

All courses except Elementary and Intermediate German may be taken for one semester only, when circumstances make it advisable.

1-2. Elementary German.—6 s.h. (E & W)
ASSISTANT PROFESSOR WILSON AND STAFF

3-4. Intermediate German.—6 s.h. (E & W)
PROFESSOR KRUMMEL AND STAFF

51-52. Third-Year German.—For Freshmen and Sophomores primarily. A transition course between Intermediate German and the literary and scientific courses of the 100 and 200 groups. **6 s.h.** (w) [Temporarily discontinued.]

101-102. Elementary German.—For Juniors and Seniors primarily. **6 s.h.** (w) This course proceeds more rapidly than German 1-2. [Temporarily discontinued.]

103-104. Intermediate German.—For Juniors and Seniors primarily. **6 s.h.** (w) This course proceeds more rapirdly than German 3-4. [Temporarily discontinued.]

Courses 107 to 214 will be offered on the East or West Campus as the necessity for them arises. In the February, 1944, term (East Campus) German 126, 208 and 212 will be offered. Courses offered in the July (West), September (East) and November (West) terms (1944) will be announced later.

107. Scientific German.—The German language as used in the various contemporary sciences. **3 s.h.** (w)
PROFESSOR KRUMMEL AND ASSISTANT PROFESSOR WILSON

108. Advanced Scientific and Medical German.—Advanced scientific German with special emphasis on medical German. **3 s.h.** (w)
Professor Krummel and Assistant Professor Wilson

109-110. German Prose Fiction.—Origin and development of the German novel with special emphasis on the nineteenth century. **6 s.h.**
Professor Krummel

111-112. Introduction to the Classic Drama.—Selected dramas from Lessing, Goethe, and Schiller. **6 s.h.** Assistant Professor Wilson

113-114. Nineteenth-Century German Poetry.—In the first semester the lyric is studied and in the second semester the ballad. **6 s.h.**
Assistant Professor Wilson

115-116. German Drama of the Nineteenth Century.—A study of leading dramatists from Kleist to Hauptmann. **6 s.h.** Professor Krummel

117-118. German Conversation.—A course in writing and speaking German for properly qualified students. **6 s.h.**

119-120. German Literature in English Translation.—The great epochs in German literature studied through English translations. **6 s.h.**
Professor Vollmer

121-122. Schiller.—A study of his life and works in relation to the culture of the eighteenth century. **6 s.h.** Professor Vollmer

123-124. Modern German Short Story.—Development and technique of the novelle. **6 s.h.** Dr. Shears

125-126. Contemporary German Literature.—A study of representative works of the twentieth century. **6 s.h.** Dr. Shears

129-130. Military and Service German.—A study of descriptive and documentary material in the German language as used in military, political, and diplomatic writings of recent years. Open to all properly qualified students. **3 s.h.** per semester. (w) Assistant Professor Wilson

201-202. Goethe.—A study of Goethe's life and works, with special emphasis upon the broader aspects of his ever-widening interests and literary activities. **6 s.h.** Professor Krummel

203-204. Leibnitz to Romanticism.—Eighteenth-century German literature in its relation to contemporary European philosophy. **6 s.h.**
Professor Vollmer

205-206. Middle High German.—The language and literature of Germany's first classical period. **6 s.h.** Professor Vollmer

207-208. German Romanticism.—The course covers the entire field of German romanticism from 1800 to 1850. **6 s.h.** Professor Vollmer

209-210. Kleist, Grillparzer, and Hebbel.—The dramatic development in Germany after Schiller. **6 s.h.** Professor Krummel

211-212. Heinrich Heine and Young Germany.—Heine's life and thought, culminating in the Jungdeutschland Movement. **6 s.h.** Professor Vollmer

213-214. Literature of the Empire, 1871-1914.—A study of the literature of this period as determined particularly by the philosophical, social, political, and religious factors. **6 s.h.** Professor Vollmer

NAVY V-12 COURSES

Foreign Language 1-2 may be substituted for a first-year language.

Foreign Language 3-4 may be substituted for a second-year language.

Foreign Language 5, 6, and 7 may be substituted for third-year courses.

DEPARTMENTAL MAJOR

1. *Prerequisites:* German 1-2 and 3-4.

2. *Major Requirements:* Twenty-four hours in the German Department. Twelve of these must be selected from the 200 courses. The remaining twelve may be selected from German 51-52 and any courses in the 100 group except 101-102, 103-104, and 119-120.

HONORS IN GERMAN

Prerequisites:

1. For admission to candidacy for Honors in German, a student must have begun the study of the language not later than the Freshman year in college.

2. A student who has completed at least 12 s.h. of college German by the end of the Sophomore year with a grade of "A" or "B" (equivalent courses in secondary schools or in other colleges may be presented as substitutes) is eligible to apply to the Departmental Committee for permission to read for Honors in German.

General Rules:

I. The Departmental Honors Program constitutes the work of the Honors student during the Junior and Senior years. This program shall be the equivalent of sixty semester hours of work.

II. *Work in the German Department:* The amount of work taken in the German Department shall be the equivalent of thirty-six semester hours. Of this the work done in the Honors tutorials shall count twelve hours, six hours for the Junior year and six hours for the Senior year. The comprehensive examinations at the end of the Senior year are counted as part of this twelve semester hours credit.

III. *Related Work:* The related work, which constitutes at least two fifths of the Honors program, that is, the equivalent of twenty-four semester hours, must be distributed among not less than two departments, unless the Departmental Committee gives special permission for the student to take his related work in one department.

IV. *General Honors Examinations:* In May of the Senior year the candidate will be given a general written examination, conducted by his Adviser, on his Honors Reading. A general oral examination, conducted by the Departmental Committee and presupposing a general knowledge of the development of German culture and civilization and a practical ability in the use of the German language, will also be conducted in May.

GOVERNMENT

See courses listed under Political Science.

GREEK

PROFESSOR PEPPLER, CHAIRMAN, AND DIRECTOR OF UNDERGRADUATE STUDIES; DR. ROSE, SUPERVISOR OF FRESHMAN INSTRUCTION; ASSISTANT PROFESSOR WAY; DR. TRUESDALE

Courses 15, 121-122, 141-142, and 131 are entirely in English and require no knowledge of the Greek language. The purpose in offering them is to give a wider circle of students some conception of the debt which modern civilization owes to the Greeks.

1-2. Course for Beginners.—Open to all students. **6 s.h.** (W & E)
Professor Peppler and Dr. Rose

53-54. Xenophon.—*Anabasis,* Books I-IV. Open to students who have completed course 1-2. **6 s.h.** (W & E) Dr. Rose

105-106. Homer.—*Iliad,* Books I-VI. Open to students who have completed courses 1-2 and 53-54 or their equivalent. **6 s.h.** (W & E)
Professor Peppler

107-108. Plato.—*Apology, Crito,* and selections, together with collateral reading in the *Memorabilia* of Xenopohn and in the *Clouds* of Aristophanes. **Euripides.**—One play to serve as an introduction to Greek tragedy. Open to students who have completed the required preliminary work. **6 s.h.** (W & E) Assistant Professor Way

15. Mythology.—A study of Greek mythology and the use made of it in art and English literature. No knowledge of the Greek language is required. Open to Freshmen as an elective in either semester. **3 s.h.** (W & E) Dr. Rose

115-116. Sight Reading in Greek.—Three hours per week through the year. **4 s.h.** (W) Assistant Professor Way and Dr. Rose

117-118. Greek Prose Composition.—The character of this course is determined by the needs of the students who elect it. **3 s.h.** (W)
Professor Peppler

121-122. Greek Literature in English Translation.—The purpose of this course is to give a general survey of the life and civilization of the Greeks, especially to those who have never studied the language but wish to become acquainted with some of the choicest portions of the literature by the use of translations. It is, however, open as an elective to all Juniors and Seniors, whether they know Greek or not. First, the *Iliad* and the *Odyssey* are read in translation and illustrated with stereopticon views of the excavations and discoveries at Troy and other cities of the Aegean age; then, many of the extant plays of the three great tragic poets are studied in English translations. **6 s.h.** (W & E)

Students may elect course 122, whether they have taken course 121 or not.

141-142. Greek Art.—Lantern lectures designed to provide a comprehensive survey of the development of Greek sculpture and Greek architecture in all periods. The course is opened by a preliminary account of Egyptian, Mesopotamian, and Aegean backgrounds. Open to Seniors, Juniors, and (by arrangement) Sophomores. No knowledge of Greek is required. **6 s.h.** (E)
Assistant Professor Way

Students may elect course 142, whether they have taken course 141 or not.

131. History of Greece.—The history of the Greek world from the Late Bronze Age to the Macedonian conquest. Open to Seniors, Juniors, and (by arrangement) Sophomores. No knowledge of Greek is required. **3 s.h.** (W & E) Assistant Professor Way

203-204. Homer.—*Odyssey.* **Pindar and Bacchylides.** **6 s.h.** (w)
ASSISTANT PROFESSOR WAY AND DR. TRUESDALE

207-208. Greek Orators.—Selected speeches. **6 s.h.** (w)
ASSISTANT PROFESSOR WAY

209-210. Plato.—*Symposium, Protagoras,* and parts of the *Republic.* **6 s.h.** (w) ASSISTANT PROFESSOR WAY
Only one of the three year-courses for Seniors and Graduates (203-210), listed above, is offered each year.

243. Athenian Topography.—The topography and monuments of ancient Athens. **3 s.h.** (w) ASSISTANT PROFESSOR WAY

244. Greek Epigraphy.—Lectures on the history of the alphabet and the development of the local Greek alphabets, followed by extensive reading of inscriptional texts in facsimile. **3 s.h.** (w) ASSISTANT PROFESSOR WAY

245. Greek Dialects.—A linguistic study of transliterated inscriptions illustrative of the major Greek dialects. The interrelations of the dialectal forms are examined with reference, where possible, to their origin in pro-ethnic Greek. **3 s.h.** (w) ASSISTANT PROFESSOR WAY

246. Greek Historical Inscriptions.—The more valuable historical inscriptions are read in chronologcial order and interpreted in their general bearing upon the course of Greek history. **3 s.h.** (w) ASSISTANT PROFESSOR WAY

247-248. Greek Archaeology.—Advanced course in the general field for Seniors and Graduates, comprising architecture, sculpture, vases, and the minor arts. **6 s.h.** (w) ASSISTANT PROFESSOR WAY
Of the courses numbered from 243 to 248 only two semester-courses are offered each year.

257. Social and Cultural History of the Hellenistic World from Alexander to Augustus.—Lectures, readings, and discussions. **3 s.h.** (w)
PROFESSOR ROGERS AND DR. TRUESDALE

NAVY V-12 COURSES

Foreign Language 1-2 may be substituted for a first-year language.

Foreign Language 3-4 may be substituted for a second-year language.

Foreign Language 5, 6, and 7 may be substituted for third-year courses.

DEPARTMENTAL MAJOR

Prerequisite: Greek 1-2.
Major Requirements: A candidate for a major in Greek must complete twenty-four semester hours, including the following courses: Greek 53-54, 105-106, 107-108, 117-118, and 131.

DEPARTMENTAL HONORS PROGRAM

For admission to candidacy for Honors in Greek the student must have completed Greek 1-2 and 53-54 or their equivalent.

Candidates for Honors must complete the following program of work:

(a) Greek 105-106, 131, 141-142, 107-108, 122, and 117-118.

(b) Four year-courses in related departments.

(c) The Honors Reading. This is tutorial work in which the student is required to read assigned portions of Greek literature by himself, to write papers on topics related to his reading, and to meet the Honors Adviser in weekly conferences for the discussion of the literature that he is reading independently. For the Honors Reading a credit of nine semester hours is given.

Students who enter the University with advanced standing in Greek take higher courses in the language than those listed above.

At the end of the Senior year candidates for Honors must pass a comprehensive examination in writing on the subject matter covered by their studies in Greek.

Graduates of Duke University may attend the American School of Classical Studies at Athens, Greece, without charge for tuition, and are eligible to compete for the fellowships that are offered annually by the School. These consist of two fellowships in Greek archaeology and one in the language, literature, and history of ancient Greece, each with a stipend of $1,300. They are awarded mainly on the basis of examinations held in the beginning of February of each year.

HEALTH AND PHYSICAL EDUCATION

TRINITY COLLEGE AND THE COLLEGE OF ENGINEERING

MR. WADE, DIRECTOR; MR. CAMERON, ACTING DIRECTOR; MESSRS. AYCOCK, CALDWELL, CARD, CHAMBERS, COOMBS, COX, CRICHTON, FOGLEMAN, GERARD, HAGLER, LEWIS, MONTFORT, PERSONS, POTTER, STANLEY

REQUIRED PHYSICAL EDUCATION FOR MEN

Six hours of credit in physical education, with an average grade of "C," must be completed for graduation. Three hours a week through the Sophomore year are needed to fulfill this requirement. All students must enroll in physical education until they have completed the requirement.

All students are required to take a medical and physical examination before registering. Those who reveal pronounced physical deficiencies are excused from regular courses in physical education and are required to take the course entitled "Individual Corrective Activities." Students assigned to this work continue to take it until they have been pronounced reasonably sound. Thereupon they withdraw from this course and register in the regular physical education course. A student may take from one to eight semesters of this special work. Students without defects may elect to take any four courses they choose. In general, these activities fall in one of three groups: those developing physical efficiency; those affording competitive contests; and those occupying recreative or leisure time. Since a student is not allowed to take the same course twice, he covers four courses in the two years of required work.

Students may receive physical education credit for participation in Freshman and varsity intercollegiate sports.

A regulation uniform, consisting of shirt, trunks, supporter, socks and sweat clothes, will be furnished each student upon payment of the Equipment and Recreation Fee and Laboratory Fee (see pages 173 and 174). Each student is required to provide rubber-soled shoes.

PHYSICAL EDUCATION CLASSES

1-2. Basketball.—1½ s.h.	MR. CALDWELL
3-4. Boxing.—1½ s.h.	MR. POTTER
5-6. Individual Corrective Activities.—1½ s.h.	MR. AYCOCK
7-8. Handball.—1½ s.h.	MR. GERARD
9-10. Softball.—1½ s.h.	MR. STANLEY
11-12. Soccer Football.—1½ s.h.	MR. GERARD
13-14. Swimming.—1½ s.h.	MR. PERSONS

15-16. Touch Football.—1½ s.h. MR. GERARD

17-18. Tennis.—1½ s.h. MR. COX

19-20. Tumbling Stunts.—1½ s.h. MR. CARD

21-22. Postural Training.—1½ s.h. MR. AYCOCK

25-26. Wrestling.—1½ s.h. MR. POTTER

27-28. Apparatus Stunts.—1½ s.h. MR. CARD

49. Lacrosse.—1½ s.h. MR. POTTER

55-56. Individual Corrective Activities.—1½ s.h. MR. AYCOCK

59. Baseball.—1½ s.h. MR. COOMBS

61-62. Golf.—1½ s.h. MR. CRICHTON AND MR. HAGLER

63-64. Advanced Tennis.—1½ s.h. MR. COX

65-66. Advanced Apparatus.—1½ s.h. MR. AYCOCK

INTERCOLLEGIATE ATHLETIC SPORTS

FRESHMEN	VARSITY
30. Baseball.—1½ s.h.	70. Lacrosse.—1½ s.h.
32. Basketball.—1½ s.h.	80. Baseball.—1½ s.h.
37. Football.—1½ s.h.	82. Basketball.—1½ s.h.
38. Football.—1½ s.h.	83. Basketball.—1½ s.h.
41. Cross Country.—1½ s.h.	87. Football.—1½ s.h.
42. Swimming.—1½ s.h.	88. Football.—1½ s.h.
44. Tennis.—1½ s.h.	90. Golf.—1½ s.h.
46. Track.—1½ s.h.	91. Cross Country.—1½ s.h.
48. Wrestling.—1½ s.h.	92. Tennis.—1½ s.h.
50. Lacrosse.—1½ s.h.	93. Soccer Football.—1½ s.h.
	94. Swimming.—1½ s.h.
	95. Track.—1½ s.h.
	96. Track.—1½ s.h.
	98. Wrestling.—1½ s.h.

ELECTIVES IN PHYSICAL EDUCATION

Students in Group VI A may elect fifteen semester hours from the courses offered below. Six semester hours may be elected from the courses listed under Special Methods in Physical Education and nine semester hours may be elected from the courses listed under Theory and Practice in Physical Education.

These courses are arranged to meet the increasing demand for teachers who are qualified to coach and teach physical education. These course should be selected with the advice of the Director of Undergraduate Studies in order to meet the needs of the individual.

SPECIAL METHODS IN PHYSICAL EDUCATION

163. Athletic Coaching in Secondary Schools.—Theory and practice in the fundamentals of coaching baseball and track. Prerequisites: courses 30 or 80 and 21-22 or 46 or 96 or their equivalent. Open to Sophomores, Juniors, and Seniors. **3 s.h.** MR. COOMBS, MR. CHAMBERS

164. Athletic Coaching in Secondary Schools.—Theory and practice in the fundamentals of coaching football and basketball. Prerequisites: courses 37 or 87 and 1-2 or 32 or 82 or their equivalent. Open to Sophomores, Juniors, and Seniors. **3 s.h.** MR. CAMERON, MR. STANLEY

THEORY AND PRACTICE IN PHYSICAL EDUCATION

65. History and Principles of Physical Education.—A study of the objectives and principles upon which physical education is based. The history of physical education is studied in order to show the changes in objectives, principles, and methods and as an aid in the interpretation of trends. Open to Sophomores, Juniors, and Seniors. **3 s.h.** MR. AYCOCK, MR. GERARD

172. Recreational Leadership.—Combative contests, games, mass athletics, supervision of community recreation. Open to Sophomores, Juniors, and Seniors. **3 s.h.** MR. GERARD

173. Individual Gymnastics.—The diagnosis of abnormal cases, including overweight, underweight, post-operative, postural, and flat-foot cases, with the prescription of exercise for their correction. Open to Sophomores, Juniors, and Seniors. **3 s.h.** MR. AYCOCK

182. The Administration of Health and Physical Education in Secondary Schools.—Presents the everyday problems that arise in the experience of the teacher of health and physical education. Open to Juniors and Seniors. **3 s.h.** MR. AYCOCK, MR. GERARD

187. School Programs of Physical Education.—Open to Juniors and Seniors. **3 s.h.** MR. GERARD

190. Protective Practices in Physical Education.—A study of safety measures including training and first aid. Open to Juniors and Seniors. **3 s.h.** MR. CHAMBERS

NAVY V-12 COURSES

Navy V-12 courses may be substituted for required physical training.

WOMAN'S COLLEGE

ASSISTANT PROFESSOR GROUT, CHAIRMAN; MRS. DRUMMOND, MISS JUDD, MISS LEWIS, MISS PETERSON, MISS SMITH, AND MISS WEEKS

PHYSICAL EDUCATION ACTIVITIES

Six hours of credit in physical education, with an average grade of "C," must be completed for graduation. Two hours a week through the Junior year are needed to fulfill this requirement.

All students are given a physical and medical examination upon entering and at intervals throughout their college course. Classes in individual gymnastics and light sports are arranged for those who should not take the more active work.

For information concerning gymnasium costumes and fees refer to pages 171 and 174.

October to December: Badminton, bowling, diving, golf, hockey, recreational sports, riding, soccer, swimming, tennis, volleyball.

December to March: Basketball, body mechanics, bowling, clog and tap dancing, folk dancing, social dancing, modern dance, rhythm fundamentals, fencing, individual gymnastics, life saving, riding, swimming, first aid.

March to May: Archery, badminton, bowling, diving, fencing, golf, life saving, modern dance, riding, softball, swimming, tennis, first aid, learning and directing recreational sports.

PHYSICAL EDUCATION THEORY

Students in Group VI A may receive academic credit for all courses listed below.

Students in Group VI B may receive academic credit for Physical Education 102, Health Education 41 and 112.

Students in all groups may receive credit for Physical Education 105-106, 108, and Health Education 41, 112, and 115.

101. History and Principles of Physical Education.—An historical survey of physical education stressing the relation between the types of activity developed and the social and political ideals of different nations and periods. A study of the principles upon which physical education is based. Analysis of successful teaching in physical education. **2 s.h.** (E)
ASSISTANT PROFESSOR GROUT

102. The Teaching of Physical Education in Elementary Schools.—A study of methods and materials used in teaching physical education to children; includes discussion on the theory of physical education, and practice in teaching elementary school activities. Required of women students in Group VI B. **3 s.h.** (E) MISS WEEKS

105-106. Methods and Materials in Recreation.—A course intended to familiarize students with recreation activities and methods of organizing groups in these activities. Special emphasis is placed on recreation leadership training for war-time service. General fields covered are: Social Activities, Music Activities, Folk and Square Dancing, Games and Sports, Arts and Crafts, Drama Activities, Nature and Outing Activities. Open to Juniors and Seniors without prerequisite. Five periods per week throughout the year. **6 s.h.** (E)
Supervisor: ASSISTANT PROFESSOR GROUT. Teachers: ASSOCIATE PROFESSOR ADDOMS, ASSISTANT PROFESSOR WEST, MRS. DRUMMOND, MISS PETERSON, MISS WEEKS

108. Problems in Community Recreation.—A study of the historical development of organized recreation; recent trends and theories in recreation; qualifications and preparation for leadership; recreational interests of adolescents and adults; the administration of playgrounds and community centers, including the study of local and state recreation departments; materials and methods for directing recreational activities. Open to Juniors and Seniors without prerequisite. **3 s.h.** (E) MISS ————————

114. Kinesiology.—A study of the muscles, bones, and joints concerned in physical exercise. Analysis of fundamental movements with emphasis on the development of normal posture and efficient body movement. Required of students in physical education who plan to enter the field of physiotherapy. **3 s.h.** (E) MISS SMITH

118. Orthopedic and Remedial Physical Education.—The study of body mechanics, corrective exercise and massage. Purpose and technique of physical examination and evaluation of results. **3 s.h.** (E) MISS SMITH

119. Organization and Administration of Physical Education.—Curriculum building in physical education. A study of state and city programs. Tests and measurements in physical education. Co-ordination of health education and

physical education. Administrative problems of the high-school teacher and public school supervisor. Plans and equipment for gymnasia and playgrounds. **2 s.h.** (E) Assistant Professor Grout

181-182. Methods and Materials in Physical Education.—A course in the theory and practice of teaching and officiating in games and sports and of teaching rhythmic activities for girls and women. **6 s.h.** (E)
Miss Lewis and Staff

185-186. Advanced Methods and Materials in Physical Education.—A continuation of 181-182. Open to Seniors preparing for full-time teaching in physical education. **6 s.h.** (E) Miss Lewis and Staff

HEALTH EDUCATION

41. Personal Health Problems.—A study of health problems from the point of view of the student in college and as a member of society. Prerequisite for students preparing to teach physical education. Either semester. **3 s.h.** (E) Miss Peterson

112. School Health Problems.—An introduction to school health problems from the point of view of the classroom teacher. This course includes physical inspection of school children, communicable disease control, teacher health, school plant, safety, and healthful classroom procedures. Required of all students in Group VI B and of all students preparing to teach physical education in secondary schools. **3 s.h.** (E) Miss Peterson

115. Community Health Problems.—A course designed to acquaint the student with problems in community health. Subjects to be considered include environmental health hazards and their control, methods of community attack on specific diseases and disorders, health problems specific to certain groups, and official and nonofficial agencies concerned with public health. Prerequisite: Health Education 41. **3 s.h.** (E) Miss Peterson

REQUIREMENTS FOR TEACHING HEALTH AND PHYSICAL EDUCATION IN THE PUBLIC SCHOOLS

The following requirements have been set up for students in Group VI A who wish to qualify as full-time or part-time teachers of Health and Physical Education. These requirements meet the standards of the North Carolina Department of Public Instruction for certification in Health and Physical Education and of most of the other states represented in the student body. Students preparing to teach in any state are advised to check with the department as to specific requirements.

Prerequisites: Zoology 1-2, Health Education 41.

Thirty semester hours, including Physical Education 101, 118, 119, 181-182, 185-186, Health Education 112, Zoology 53, 151.

Education Requirements: Consult Department of Education.

Students preparing to teach physical education and health on a part-time basis only are advised to take at least the following program:

Prerequisite: Health Education 41.

A minimum of fifteen semester hours including Physical Education 101, 119, 181-182, Health Education 112 and a physical education elective, three semester hours.

Education Requirements: Consult Department of Education.

HISTORY

PROFESSOR LAPRADE, CHAIRMAN; ASSOCIATE PROFESSOR NELSON, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR HAMILTON, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS BALDWIN, CARROLL, CLYDE, LANNING, AND SYDNOR; ASSOCIATE PROFESSOR MANCHESTER; ASSISTANT PROFESSORS MCCLOY, QUYNN, ROBERT, ROPP, STILL, AND WOODY; DRS. BREWSTER, CHAFFIN, FERGUSON, PARKER, AND WATSON; MR. VAN DUSEN

The undergraduate courses in history are designed to afford (1) an introduction to the study of history by a consideration of the history of the modern world; (2) a more intensive study of general American history; (3) opportunities for more advanced study of phases of American, English, European, Hispanic-American, and Eastern history which interest the teachers and students.

Course 1-2 or 51-52 is a prerequisite for all other courses; courses 91 and 92 are prerequisite for courses 114, 119-120, 121-122, 153-154, 209-210, 215-216, 263-264, 265-266. Sophomores who took only one semester of course 1-2 in the Freshman year may be admitted to courses 91 and 92, 61-62, 63-64, or 65-66, provided they made a grade of "B" or above on the semester taken. Courses offered for Seniors and Graduates are limited to twenty-five students; Juniors may not elect them without special permission from the Department and the Council on Graduate Instruction. Sophomores must obtain permission of the instructor in order to be admitted to courses numbered above 100; students who are not fully qualified Sophomores will not be admitted to these courses.

1-2. Historical Background of the World Today.—An introduction to the study of modern history with special reference to the issues in the present world crisis. The work in the first semester, covering the period 1500-1871, deals with such topics as the civilization of the Italian city states, the revolt from the Roman Church and its consequences, the commercial revolution and the early expansion of Europe into Asia and America, the balance of power and the rise of national states, the French Revolution and Napoleon, the industrial revolution, the Holy Alliance and the New World, the unification of Italy and the German Empire. In the second semester attention is given to such subjects as the Western infiltration of eastern Asia and the rise of Japan, the partition of Africa, Latin America, and the rise of the United States as a world power, national rivalries and alliances preceding the first World War, the consequences of the peace and the rise of the totalitarian states, the second World War. **6 s.h.** (W & E)

Sophomores and Juniors may not be admitted to this course. Courses 1 and 2 are each offered in both semesters. Either semester may be counted separately as an elective but not as fulfilling the minimum uniform requirements or as a basis of further work in history.

PROFESSORS CLYDE AND LAPRADE; ASSOCIATE PROFESSOR NELSON; ASSISTANT PROFESSOR QUYNN; DR. CHAFFIN

51-52. Historical Background of the World Today.—An introductory course for Sophomores, Juniors, and Seniors dealing with the topics indicated in the description of course 1-2. **6 s.h.** (W & E) PROFESSOR BALDWIN

[Not open to Freshmen or to students who have had course 1-2.]

61-62. Russia and the Near East from Peter the Great to Stalin.—The rise of Russia and its effect on international relations; the breakup of the Ottoman Empire and the formation of the Balkan states; the abolition of serfdom and the Industrial Revolution in Russia; the Russian Revolution; international, agrarian, and industrial policies of the Soviet Union; the Danube

basin and the revival of German imperialism in the Near East; Arabian nationalism and the conflict of England and Italy in the Mediterranean area. Prerequisite: course 1-2 or 51-52. **6 s.h.** (w) Assistant Professor Ropp
[Not offered in 1944-45]

63-64. Sea Power and Modern Navies.—The work in the first semester, covering the period from the Spanish Armada to the end of the nineteenth century, deals with such topics as the importance of sea power in the wars and rivalries of the sixteenth, seventeenth, eighteenth, and early nineteenth centuries, the rise of the blockade, the shifts from sails to steam and from wood to iron. Among the topics treated in somewhat greater detail in the second semester are the development of the navies of the United States, Great Britain, Germany, and Japan in the twentieth century as influenced by national policies and by the principal wars in which these nations participated, the rise of submarines and air power. **6 s.h.** (w) Assistant Professor Ropp

Sophomores, Juniors, and Seniors regularly enrolled in the N.R.O.T.C. may elect this course without the necessity of first taking course 1-2 or 51-52.
[Not offered in 1944-45; see course N3 below.]

65-66. The Social and Cultural History of Western Europe in the Seventeenth and Eighteenth Centuries.—6 s.h. (w) Assistant Professor McCloy
[Not offered in 1944-45]

91. Political and Social History of the United States to 1850.—A general study of the development of the United States, prefaced by a brief review of the Colonial era, covering the period from the Revolution through the Compromise of 1850. **3 s.h.** (w & e)
Professor Sydnor; Assistant Professors Robert and Woody; Dr. Brewster, and Mr. Van Dusen

92. Political and Social History of the United States since 1850.—A consideration of the sectional conflict and its aftermath; the rise of the United States as an industrial nation and a world power; the social, economic, and political implications of participation by the United States in the world wars of the twentieth century. **3 s.h.** (w & e)
Professor Sydnor; Assistant Professors Robert and Woody; Dr. Brewster, and Mr. Van Dusen

Note: In courses 91 and 92 no texts are required, but each student pays a class fee of $3.00 per semester with which all books to be read are purchased and placed in the libraries. This fee is collected through the Treasurer's Office.

101-102. Early European Civilization.—A study of the development in Western Europe of the institutions and culture of ancient times and the middle ages. **6 s.h.** (e) Assistant Professor Quynn

Sophomores who made an average grade of "B" or more on course 1-2 may be admitted to this course.

105-106. English Constitutional History.—A history of England with emphasis on constitutional aspects. This course is required of students in the Pre-Legal Group in the Junior or Senior year. **6 s.h.** (w)
Assistant Professor Hamilton

Students who have had course 123-124 may not receive credit for this course.
[Not offered in 1944-45]

107-108. Social and Cultural History of England.—A study of English history from the fourteenth century to the present time in an effort to arrive at a synthesis of social and political events and thus provide a background for the study of English literature. Emphasis is placed on the ages of Chaucer,

Shakespeare, and Milton; the eighteenth and early nineteenth centuries; the reign of Victoria and the twentieth century. **6 s.h.** (E) DR. FERGUSON

Sophomores who made an average grade of "B" or above on course 1-2 may be admitted to this course.

[Not offered in 1944-45]

109-110. Political and Cultural Foundations of Modern Europe, 1400-1648.—Attention is given to the decline of feudal society and the age of faith; the rise of diplomacy and the states-system; humanism and the republic of letters; science and art in the times of Lorenzo de' Medici, Erasmus, Montaigne, Francis Bacon; religious conflict and the idea of tolerance. **6 s.h.** (W)

[Not offered in 1944-45] ASSOCIATE PROFESSOR NELSON

114. History of the United States since Reconstruction.—Reconstruction and its aftermath; cultural, political, and economic development since 1876, agrarian and labor problems, the rise of large industry, the Spanish War and imperialism, the World War, and post-bellum problems. Prerequisites: courses 91 and 92. **3 s.h.** (W) PROFESSOR LANNING

[Not offered in 1944-45]

119-120. Social and Cultural History of the United States.—A study of American life and manners with emphasis on trends of literary and artistic expression, on religious, educational, and reform movements, and on the social effects of a changing economy. Prerequisites: courses 91 and 92. **6 s.h.** (W)

[Not offered in 1944-45] ASSISTANT PROFESSOR ROBERT

121-122. The Church in American History.—Among the subjects considered are the relation of theology and church government to political theory and practice, the social and political results of the Great Awakening and of ecclesiastical controversies, the part played by the Church in the American Revolution and in the making of state constitutions, in education, westward expansion, in the reform movements of the nineteenth century, labor controversies, the Civil and World Wars, and internationalism. Prerequisites: courses 91 and 92. **6 s.h.** (E) PROFESSOR BALDWIN

[Not offered in 1944-45]

123-124. English History.—A study in the first semester of the development in England of the institutions and habits of life characteristic of the nation and in the second of the extension of English influence throughout the world in the eighteenth, nineteenth, and twentieth centuries. **6 s.h.** (E)

PROFESSOR LAPRADE

Students who have had course 105-106 may not receive credit for this course.

125. The Ancient Regime, the French Revolution, and Napoleon.—A study of the intellectual defenses of the Ancient Regime, the crumbling of these defenses during the eighteenth century, the Revolution and recent interpretations of that event, the rise and decline and fall of Napoleon. Readings are assigned from the works of Locke, Voltaire, Montesquieu, and Rousseau; special attention is given to the fall of Napoleon. **3 s.h.** (W) DR. PARKER

[Not offered in 1944-45]

126. The Congress of Vienna and the Rise of the European Nations to 1870.—A study of European history from the Congress of Vienna through the Franco-Prussian War emphasizing the growth of nationalism and the struggle of liberalism against conservatism, including attention to the Industrial Revolution, socialism, and Darwinism. Readings are assigned from Mill, Mazzini, Marx, and Darwin; special attention is given to the diplomacy of Cavour and Bismarck. **3 s.h.** (W) DR. PARKER

[Not offered in 1944-45]

127. History of Latin America Through the Formation of the National Governments.—3 s.h. (E) Professor Lanning

128. Inter-American Affairs.—This course treats the relations of the Latin-American states with each other and with the United States with the design of explaining the current significance of Latin America. Chief emphasis is placed upon social problems and movements common to all the republics and upon the role of the United States in Latin-American affairs, including such topics as American interventions; contributions of the United States to Latin-American life in such matters as public health; Pan-Americanism; Pan-Hispansim; foreign penetration and ideologies; the cultural and commercial aspects of the Good Neighbor Policy; Latin-American states in the World War and the present conflict. **3 s.h.** (E) Professor Lanning

Ancient History.—Greek 131—Latin 131-132.—See Departments of Greek, Latin and Roman Studies. These courses do not count toward a major in history (W)

135. Main Currents in European History, 1815-1914.—3 s.h. (W)
[Not offered in 1944-45] Assistant Professor Hamilton

136. Europe since 1914, Including the Rise of the Totalitarian States, Russia, Italy, and Germany; the Second World War.—3 s.h. (W)
Assistant Professor Hamilton

141-142. The Far East from Commodore Perry to Chiang Kai-shek.—Historical interpretations of the role of Eastern Asia in the present World War with attention to such topics as Western imperalism in China and Japan in the nineteenth century; the rise of Japan as a military and industrial power; the emergence of militant Chinese nationalism; the fusion of the Far Eastern and the European wars into a world conflict. **6 s.h.** (E) Professor Clyde

153-154. The History of the South.—A study, beginning in the Colonial period, of the development of the Southern part of the United States with particular attention to its distinctive characteristics and institutions and to their influence in shaping Southern attitudes toward major questions of national policy. **6 s.h.** (E) Professor Sydnor

FOR SENIORS AND GRADUATES

209-210. American Constitutional History.—A study of the Colonial foundations of American constitutional attitudes, the constitutional aspects of the American Revolution, the framing and ratification of the Constitution, the statehood process and the extension of democracy, the constitutional implications of sectional conflict, and the Supreme Court in its relation to the problems of an industrial America. Prerequisites: courses 91 and 92. **6 s.h.** (W)
[Not offered in 1944-45] Assistant Professor Still

211. The Teaching of History and the Social Studies (Education 225).—3 s.h. (W) Associate Professor Manchester
[Not offered in 1944-45]

215-216. The Foreign Policy and Diplomacy of the United States—. The work in the first semester, covering the period 1775-1877, deals with such topics as the origin and development of basic foreign policies; isolation from Europe; paramount interests in Latin America, including the Monroe Doctrine; international co-operation in the Far East. The work in the second semester, covering the period since 1877, deals with topics such as the rise of the new "manifest destiny"; beginnings of American imperialism in Latin America and the Far East; the failure of traditional neutrality in the first World War; postwar conflicts between isolation and collective security; involvement in the second World War. **6 s.h.** (E) Professor Clyde

217-218. **Europe since 1870.**—International relations since the Franco-German War is the chief subject of study in this course; special emphasis is placed upon the underlying economic and political influences. **6 s.h.** (W)
[Not offered in 1944-45] PROFESSOR CARROLL

219-220. **The History of the European Proletariat.**—This course is concerned chiefly with the origins, expansion, and organization of the industrial working classes of Europe. The following problems are emphasized: the decline of serfdom, the growth of an urban working class and social revolutions in England, France, and Germany prior to the eighteenth century, the results of the Industrial Revolution, and labor movements and theories during the nineteenth and twentieth centuries. **6 s.h.** (W) PROFESSOR CARROLL
[Not offered in 1944-45]

221-222. **The Age of the Renaissance.**—A survey of social and cultural changes in Western Europe from Dante to Erasmus. **6 s.h.** (E)
ASSOCIATE PROFESSOR NELSON

223-224. **Medieval Institutions and Culture.**—A consideration of the classical heritage, the Germanic infusion, development of ecclesiastical, feudal, monarchical, and communal institutions, relations of Church and State, the rise of universities, vernacular literatures, philosophy, and art in the period 300-1300 A.D. **6 s.h.** (E) ASSISTANT PROFESSOR QUYNN

225-226. **The Age of the Reformation.**—A survey of European civilization from 1500 through the Peace of Westphalia. **6 s.h.** (W)
[Not offered in 1944-45] ASSOCIATE PROFESSOR NELSON

230. **The Portuguese Empire and the Rise of Brazil.**—The course deals with Portuguese explorations, the establishment of the Portuguese Empire in the East, the transplanting of Portuguese culture overseas, and the rise of a native Brazilian civilization. **3 s.h.** (W) ASSOCIATE PROFESSOR MANCHESTER
[Not offered in 1944-45]

231. **The Hispanic Colonies of the New World.**—The development of the Iberian states as colonizing powers, the work of the conquerors, the Spanish colonial policy and system, their influences and results, native races, the international contest for supremacy, and the decay of Spanish power in America and the Philippines. **3 s.h.** (E) PROFESSOR LANNING

232. **Hispanic Republics of the New World.**—**3 s.h.** (E)
PROFESSOR LANNING

233. **The Cultural and Institutional History of Colonial Hispanic America.3 s.h.** (W) PROFESSOR LANNING
[Not offered in 1944-45]

234. **Political and Social Problems in the Hispanic American Republics.**—**3 s.h.** (W) PROFESSOR LANNING
[Not offered in 1944-45]

241-242. **The Foreign Relations and Diplomacy of the United States in the Pacific Area and the Far East.**—A study of the origins and growth of American relations with China, Japan, the Philippines, and other Pacific areas in their commercial, political, and cultural aspects. **6 s.h.** (W)
[Not offered in 1944-45] PROFESSOR CLYDE

263-264. **American Colonial History and the Revolution, 1606-1783.**—The growth of institutions and economic life in the English colonies and the American Revolution. Prerequisites: courses 91 and 92. **6 s.h.** (E)
ASSISTANT PROFESSOR WOODY

265-266. **The Westward Movement in the United States.**—A study of the progress of settlement from the Atlantic to the Pacific Coast with especial attention to the transmission of culture, developments in transportation, the transition from agrarian to urban communities, the process of state-making, and the social, economic, and political effects of the westward march upon the United States as a whole. Prerequisites: courses 91 and 92. 6 s.h. (w)
[Not offered in 1944-45] Assistant Professor Still

NAVY V-12 COURSES

H1-2. Historical Background of Present World War.—May be counted as an introductory course in History. 4 s.h.

N3. Naval History and Elementary Strategy.—3 s.h.

H3. The Ecclesiastical Age.—3 s.h.

H4. A Course Covering the 14th, 15th, 16th, and 17th Centuries to the Close of the Religious Wars in 1648.—3 s.h.

H5. Origins of Modern Europe, 1648-1815.—3 s.h.

H6. Europe in Modern Times from the French Revolution to the Munich Pact.—3 s.h.

H7. American History.—3 s.h.

DEPARTMENTAL MAJOR

Prerequisites: The Introductory Course in History (1-2 or 51-52).

Major Requirements: Students in the General Group desiring to take a major in history are required to elect twenty-four semester hours in the Department, including six semester hours in the Senior year from courses in the 200 group. Students desiring to take the more advanced courses in American history should elect courses 91 and 92 in the Sophomore or Junior year.

DEPARTMENTAL HONORS PROGRAM

Students may become candidates for Honors in history who have passed with a grade of "B" or better in their Freshman and Sophomore years courses 91 and 92 in addition to the introductory course in European history.

Candidates for Honors in history are required to take in the Junior year two courses in history offered in the 100 group and to make an average grade of "B" or better on this work. The remaining work in the Junior year will be chosen from related work and other electives with the consent of the Departmental Committee on Honors. In the Senior year, in addition to the equivalent of fifteen semester hours of supervised reading in history, the candidate must elect with the approval of the Departmental Committee on Honors six semester hours of work from the courses in history offered in the 200 group, on which he is required to make a grade of "B" or better, and nine semester hours of related or other elective work.

Of the supervised reading, which shall be done under the immediate supervision of members of the Departmental Committee on Honors, the equivalent of six semester hours shall be devoted to the classical historians such as Herodotus, Thucydides, Tacitus, Livy, Bede, the better-known chronicles, Machiavelli, Gibbon, Hume, Voltaire, Ranke, and others; the equivalent of nine semester hours shall be devoted to selected fields in either American or European history as the student may elect and the Departmental Committee advise.

At the conclusion of the work the student shall be given an oral examination by a committee of three, consisting of the two members of the Departmental Committee on Honors in charge of his supervised reading and another member of the Department selected by the Departmental Committee.

LATIN AND ROMAN STUDIES

PROFESSOR ROGERS, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES; DR. ROSE, SUPERVISOR OF FRESHMAN INSTRUCTION; ASSISTANT PROFESSOR GATES

Work is offered in several branches of Roman Studies: Latin Language and Literature, Roman Art and Archaeology, Roman History, Roman Law. Students who present two entrance units in Latin should take course **3-4**; those who present three entrance units should take courses 57 and 65 and follow up with courses 4 and 58 or 66, or both, the second semester; those who enter with four units of Latin should pursue course 41-42. A course for beginners, Latin 1-2, is open to all college students.

1-2. Courses for Beginners.—Forms, vocabulary, pronunciation, and syntax are emphasized the first semester and will be followed by the reading and translating of Caesar's *Gallic War* the second semester. An effort is made to promote rapid development of ability to read easy Latin with satisfaction. **6 s.h.** (W or E) DR. ROSE

3. Cicero's Orations.—Four orations including the *Manilian Law* and *Archias* are read, and attention is paid to prose style. Prerequisite: two entrance units of Latin. **3 s.h.** (W)
ASSISTANT PROFESSOR GATES OR DR. ROSE

4. Vergil's Aeneid.—Selections from Books I-VI, to the amount of four books or more, will be read and translated, due attention being paid to prosody. Prerequisite: three entrance units and Latin 57 taken in the semester preceding admission to the course, unless Latin 3 was taken. **3 s.h.** (W)
ASSISTANT PROFESSOR GATES OR DR. ROSE

41. Livy's History of Rome.—Selections from Books I, XXI, and XXII of Livy's *Ab Urbe Condita Libri*, together with selected parallel reading in English, will acquaint the student with a truly great artist. At the discretion of the instructor the following may be substituted for Livy: Cicero's *De Amicitia* and *De Senectute* or Selected Prose Writers, or *Comedies* of Plautus and Terence. **3 s.h.** (W or E) THE STAFF

42. Horace.—The Odes and Epodes. **3 s.h.** (W or E) THE STAFF

53. Sallust and Tacitus.—The *Jugurtha* of Sallust, the *Agricola* of Tacitus. Prerequisite: Latin 41-42 or an equivalent. **3 s.h.** (W or E) DR. ROSE

54. Catullus.—Most of the poems will be read, and Catullus' influence on certain ancient and modern poets will be discussed. DR. ROSE

57. Sight Reading in Classical Latin.—One period of an hour per week devoted to practice in the reading of Latin of the classical period; designed to train students to read with facility. (See course 4.) No outside preparation is required. **1 s.h.** (W or E) DR. ROSE

58. Sight Reading in Medieval Latin.—One period an hour per week devoted to reading interesting medieval prose and poetry. Prerequisite: at least one of the following courses: Latin 3, 4, 41, 42, and 57, or an equivalent. No outside preparation is required. **1 s.h.** (W or E) DR. ROSE

65-66. Latin Prose Composition.—Recommended to students who are pursuing courses 3-4, 57, and 41-42, and may at the discretion of the instructor be required of such students. **2 s.h.** (E) DR. ROSE

101. Tacitus and Suetonius.—Interesting and historically important selections from the *Annals* or the *Histories* of Tacitus, with some parallel sections of Suetonius' *Lives of the Twelve Caesars,* are read, with attention to the literary style and the value of the historical narrative. **3 s.h.**
PROFESSOR ROGERS

102. Juvenal and Persius.—Juvenal's literary satire forms the basis of the course, and some selections from Persius are read for comparison. **3 s.h.**
PROFESSOR ROGERS

103. The Roman Elegiac Poets.

104. Horace: Satires and Epistles.

105. Martial's Epigrams.

106. Letters of Pliny the Younger.

107. Livy: Ab Urbe Condita.

108. Cicero's Letters.

109. Materials and Methods.—A study of Latin in the secondary school curriculum for prospective teachers of Latin in high schools. Prerequisite: eighteen approved semester hours of college Latin, including courses 41-42, 53-54, or equivalent courses. Required of students who plan to teach Latin in state high schools. **3 s.h.**

111-112. Roman Literature in English Translation.

113-114. Roman Civilization.

115-116. Art and Architecture of Ancient Rome.

131-132. History of Rome.—A survey of the history of Rome from its beginnings through the Monarchy, Republic and Principate to the death of Justinian; Rome's expansion; development of the Roman constitution and public administration; a study of important features of social, legal, political, and economic problems of perennial life and interest. (This course carries no language credit. No knowledge of Latin is required for admission.) **6 s.h.** (W)
PROFESSOR ROGERS

203-204. Roman Epic: Ennius, Vergil, Manilius, Lucan, Flaccus, Statius, Silius.—A study of this literary genre, and its development by Roman writers; extensive reading of the Roman epics. Not offered if 205-206 is given. **6 s.h.** (E)
ASSISTANT PROFESSOR GATES

205-206. Roman Drama.—Select comedies of Plautus and Terence; select tragedies of Seneca. Rapid reading course. **6 s.h.** (E)
ASSISTANT PROFESSOR GATES

207-208. Roman Philosophy.

209-210. Vulgar Latin: Introduction to Romance Philology.

211-212. Roman Oratory.—A reading course in the history and development of Roman Oratory, based for the most part on Cicero's *Brutus* and the *Dialogus* of Tacitus. **6 s.h.** (E or W)
PROFESSOR ROGERS

215. Roman Art and Archaeology.

216. Topography and Monuments of Ancient Rome.

For other courses numbered in the 200 group, see the *Bulletin of the Graduate School.*

NAVY V-12 COURSES

Foreign Language 1-2 may be substituted for a first-year language.

Foreign Language 3-4 may be substituted for a second-year language.

Foreign Language 5, 6, and 7 may be substituted for third-year courses.

DEPARTMENTAL MAJOR

Prerequisites: Latin 41-42, 65-66, or acceptable equivalents.

Major Requirements: Latin 53-54, 101-102, six semester hours in courses numbered from 103 to 108, and six semester hours in courses numbered from 200 to 299 to be taken in the Senior year.

In addition, all majors are expected to pursue course 131-132, History of Rome.

Majors who contemplate graduate work are reminded of the necessity of Greek, German, and French for such study.

LAW COURSES FOR ACADEMIC STUDENTS

The first-year program of the Law School will include the following courses:

Subject	*Semester Hours*
Agency	2
Contracts	6
Criminal Law and Its Administration	3
Family Law	2
Introduction to Procedure	3
Legal Bibliography	1
Personal Property	2
Possessory Estates	2
Torts	5
	26

The foregoing courses will be distributed between two semesters. The adoption by the School of Law of a three-semester year during the war emergency has required the readjustment of the curriculum for the purpose of confining each course to a single semester. The arrangement of courses will permit beginning students to enter the Law School at the start of any semester. The first two semesters taken by such students will constitute their first-year program. For further information concerning the wartime program, inquiry should be made of the Dean of the School of Law.

MATHEMATICS

PROFESSOR GERGEN, CHAIRMAN; PROFESSOR ELLIOTT, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR DRESSEL, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS RANKIN AND THOMAS; ASSOCIATE PROFESSORS CARLITZ AND ROBERTS; ASSISTANT PROFESSORS HICKSON, MAKER, PATTERSON AND RICHARDSON; DR. WADE; MISS CONE; MISS PIRKLE (PART-TIME); AND ASSISTANTS

The Department of Mathematics will offer in 1944-45 courses from the following list for which there is sufficient demand. The program planned for the Woman's College is as follows: fall semester, Mathematics 1, 7, 51, 131; spring semester, Mathematics 2, 8, 50, 52, 225.

Credit is allowed for half of a hyphenated course.

1. **Introduction to College Algebra.**—Elementary topics, factoring, fractions, rectangular coördinates and graphs, exponents, radicals, linear equations in one and several unknowns, quadratic equations, variation, progressions. **3 s.h.** (W & E) STAFF

1A. College Algebra.—Binomial theorem, systems involving quadratics, theory of equations, determinants, in addition to the material of Mathematics 1. **4 s.h.** (W) STAFF

2. Trigonometry.—Plane trigonometry, introduction to spherical trigonometry. Prerequisite: Mathematics 1 or the equivalent. **3 s.h.** (W & E) STAFF

2A. Trigonometry.—Plane and spherical trigonometry. Prerequisite: Mathematics 1A or the equivalent. **4 s.h.** (W) STAFF

3-4. Mathematical Analysis for Students of Business.—First half: review topics in algebra, functions and graphs, exponents, radicals, quadratic functions, binomial theorem, logarithms, progressions, interest and annuities, permutations, combinations, probability. Second half: trigonometric functions, right triangles, curve and equation, linear equation, differentiation of algebraic functions, applications with emphasis on problems in business. **6 s.h.** (W & E) STAFF

7. Algebra and Trigonometry.—Review topics in algebra, functions and graphs, exponents, radicals, quadratic functions, theory of equations, logarithms, plane trigonometry. **3 s.h.** (W & E) STAFF

8. Introduction to Analytic Geometry and Calculus.—Curve and equation; linear and second degree equations and their loci; differentiation of algebraic functions, applications; integration of polynomials, applications. The normal course for students who have completed Mathematics 2, 2A, or 7, and who wish only a brief introduction to analytic geometry and calculus. Students who prefer the more detailed study of these subjects offered in Mathematics 50 and 51-52 should take Mathematics 50 rather than this course. **3 s.h.** (W & E) STAFF

9-10. First-Year Engineering Mathematics.—College algebra, plane trigonometry, introduction to spherical trigonometry, plane analytic geometry, introduction to solid analytic geometry. Designed primarily for students in the Engineering Groups. **10 s.h.** (E) STAFF

15. Spherical Geometry and Trigonometry.—Geometric properties of the sphere, theory and computation for spherical triangles, applications to navigation and astronomy. Prerequisite: Mathemaitcs 7 or the equivalent. **3 s.h.** (W) ASSISTANT PROFESSOR DRESSEL

50. Analytic Geometry.—Rectangular and polar coördinates, loci, straight lines, conic sections, introduction to solid analytic geometry. Prerequisite: Mathematics 7 or the equivalent. **3 s.h.** (W & E) STAFF

51-52. Differential and Integral Calculus.—First-half (Differential Calculus): differentiation of elementary functions, curve tracing, maxima and minima, differentials, curvature, motion, infinite series. Second half (Integral Calculus): indefinite integrals, definite integrals, partial differentiation, multiple integrals, applications. Prerequisite: Mathematics 50 or permission from the instructor. **6 s.h.** (W & E) STAFF

59-60. Second-Year Engineering Mathematics.—Differential and integral calculus. Designed primarily for students in the Engineering Groups. Prerequisite: Mathematics 9-10 or the equivalent. **8 s.h.** (E) STAFF

63. Graphical and Numerical Computation.—Computation by series, interpolation, approximation of lengths and areas, construction of charts and tables of use in ordnance and gunnery. Prerequisite: Mathematics 7 or the equivalent. **3 s.h.** (W) PROFESSOR THOMAS

64. Mathematics of Artillery Fire.—A mathematical discussion of orientation and gunnery for artillery. Methods for locating gun and target. The trajectory in vacuo and in air; range table corrections; fire control. Prerequisite: Mathematics 7 or the equivalent. 3 s.h. (W)
PROFESSOR THOMAS

71. Mathematics of Investment.—Simple and compound interest, annuities certain, amortization, sinking funds, depreciation, evaluation of bonds, life insurance. Designed primarily for students in the Business Administraton Group. Prerequisite: 6 semester hours of college mathematics. 3 s.h. (W)
ASSISTANT PROFESSOR HICKSON

74. Statistics.—Averages, measures of dispersion, skewness, and correlation, probable error, curve fitting, graduation of data to type curves, index numbers, applications to problems in business and other fields. Prerequisite: 6 semester hours of college mathematics. 3 s.h. (W)
ASSISTANT PROFESSOR HICKSON

76. Mathematical Theory of Economics.—A study from a mathematical point of view of cost and demand functions, monopoly, competition, coöperation, exchange, utility, and production; supplementary review and development of the essential mathematical ideas. Prerequisite: Mathematics 4 or the equivalent. 3 s.h. (W) ASSISTANT PROFESSOR HICKSON

131. Elementary Differential Equations.—Solution of elementary types; formation and integration of equations arising in applications. Prerequisite: integral calculus. 3 s.h. (W & E) ASSISTANT PROFESSOR HICKSON

139-140. Second Course in Calculus.—Multiple integrals, partial differentiation, Taylor's theorem, envelopes, line integrals, Green's theorem, improper integrals, complex numbers. Prerequisite: integral calculus. 6 s.h. (W & E) ASSISTANT PROFESSOR MAKER

158. Finite Differences.—Interpolation formulas, symbolic methods, polynomials of Bernoulli and Euler, numerical differentiation and integration, difference equations. Must be preceded or accompanied by integral calculus. 3 s.h. (W) ASSOCIATE PROFESSOR CARLITZ

160. Elementary Solid Analytic Geometry.—Determinants, planes, straight lines, quadric surfaces. Prerequisite: integral calculus. 3 s.h. (W)
ASSOCIATE PROFESSOR CARLITZ

161-162. Reading Course for Juniors.—Open only to Juniors reading for Honors in Mathematics. Material, credit, and hours arranged in consultation with tutor. See Departmental Honors Program.

163-164. Reading Course for Seniors.—Open only to Seniors reading for Honors in Mathematics. Material, credit, and hours arranged in consultation with tutor. See Departmental Honors Program.

FOR SENIORS AND GRADUATES

201. History of Mathematics.—Evolution of the number system, arithmetic, geometry, algebra, trigonometry, analytic geometry, calculus, and modern geometry. Brief sketches of mathematicians. Prerequisite: differential calculus. 3 s.h. (E) PROFESSOR RANKIN

204. Teaching of Mathematics.—Fundamental processes, methods of study, mathematical literature, content of courses, applications, use of instruments, correlation of different branches, historical development of secondary school mathematics. Must be preceded or accompanied by integral calculus. 3 s.h. (E) PROFESSOR RANKIN

225. **Theory of Equations.**—Permutations, determinants, matrices, linear systems, polynomials, and their roots, constructibility, resultants, discriminants, simultaneous equations. Prerequisite: integral calculus. **3 s.h.** (W & E)
PROFESSOR THOMAS

227-228. **Theory of Numbers.**—Congruences, arithmetic functions, compound moduli, quadratic reciprocity, Gauss sums, quadratic forms, sums of squares. Prerequisite: integral calculus. **6 s.h.** (W)
ASSOCIATE PROFESSOR CARLITZ

229-230. **Algebraic Numbers.**—Ideals, unique factorization, divisors of the discriminant, determination of the class number. Prerequisite: Mathematics 225. **6 s.h.** (W) ASSOCIATE PROFESSOR CARLITZ

235-236. **Modern Algebra.**—Groups, fields, rings, matrices, quadratic and bilinear forms, general Galois theory, hypercomplex systems. Prerequisite: integral calculus. **6 s.h.** (W) ASSOCIATE PROFESSOR CARLITZ

250. **Modern Geometry.**—Properties of the triangle, transversals, harmonic properties of figures, poles, polars, inversion. **3 s.h.** (W)
PROFESSOR THOMAS

255-256. **Projective Geometry.**—Postulational, synthetic treatment centering around Desargues' theorem and the principle of projectivity. Conics, coordinates, order, continuity, metric properties. Prerequisite: integral calculus. **6 s.h.** (W) PROFESSOR THOMAS

271-272. **Introductory Topology.**—Topological properties of Euclidean spaces; set-theoretic and combinatorial methods. Prerequisite: integral calculus. **6 s.h.** (W) ASSOCIATE PROFESSOR ROBERTS
[Not offered in 1944-45]

275. **Probability.**—Combinatory analysis, mean values, Bernoulli's theorem, probability integral, applications to statistics. Prerequisite: integral calculus. **3 s.h.** (W) ASSISTANT PROFESSOR DRESSEL

281. **Elementary Potential Theory.**—Newtonian potentials, vector fields, Dirichlet and Neumann problems. Prerequisite: integral calculus. **3 s.h.** (W)
PROFESSOR GERGEN

282. **Differential Equations of Mathematical Physics.**—Hamilton-Jacobi equation, heat equation, wave equation, telegraphic equation, Schrodinger's equation. Prerequisite: integral calculus. **3 s.h.** (W)
ASSISTANT PROFESSOR DRESSEL

283. **Fourier Series and Spherical Harmonics.**—Fourier series and integrals, Legendre polynomials, spherical harmonics, Bessel functions, applications to mathematical physics. Prerequisite: integral calculus. **3 s.h.** (W)
ASSISTANT PROFESSOR DRESSEL

284. **Vector Analysis.**—Vectors in three-dimensional Euclidean space with applications to physics; introduction to tensor analysis. Prerequisite: integral calculus. **3 s.h.** (W) PROFESSOR THOMAS

287. **Mathematical Logic.**—Boole-Schroeder algebra of logic, system of Principia Mathematica, strict and material implication. **3 s.h.** (W)
ASSOCIATE PROFESSOR CARLITZ

288. **Foundations of Mathematics.**—Postulates for groups, fields, rings, Boolean algebras. **3 s.h.** (W) ASSOCIATE PROFESSOR CARLITZ

291-292. **Theory of Functions.**—Fundamental concepts in the theory of functions of real and complex variables. Limits, implicit functions, power series, double series, Stieltjes integrals, Cauchy's theorem and its applications, residues, Riemann surfaces, conformal mapping. Prerequisite: second course in calculus. **6 s.h.** (W) PROFESSOR GERGEN

V-12 COURSES IN MATHEMATICS

For a description of courses M1 through M9 see Navy V-12 Bulletin, No. 101, November 1, 1943.

MR-MS. Mathematical Analysis R-S.—Mathematics MR covers the material of Mathematics M1 with the exception of the following topics: functions of multiple angles, addition formulas, identities, inverse trigonometric functions, trigonometric equations. Mathematics MR-MS covers the material of Mathematics M1-M2. Mathematics MR-MS may be substituted for Mathematics 9-10. Six recitations per week, Mathematics MR, **4 s.h.**; Mathematics MS, **6 s.h.**

M1-M2. Mathematical Analysis I-II.—May be substituted for Mathematics 9-10. **10 s.h.**

M3-M4. Mathematical Analysis III-IV.—May be substituted for Mathematics 9-10. **10 s.h.**

M5-M6. Calculus I-II.—May be substituted for Mathematics 59-60. **7 or 8 s.h.**

M7. Calculus III.—May be substituted for Mathematics 131. **3 s.h.**

M8-M9. Elementary Navigation and Nautical Astronomy Ia-IIa.—6 s.h.

DEPARTMENTAL MAJOR

Prerequisite: Six semester hours of Freshman mathematics.

Major Requirements: Mathematics 51-52 or 59-60 and twelve semester hours in courses numbered above 100. The twelve hours must be approved by the Department through the Director of the Undergraduate Studies.

DEPARTMENTAL HONORS PROGRAM

Prerequisites: A student who meets the general requirement as to candidacy of the Honors Group, who has completed Mathematics 51 or 59, and who has earned an average grade of "B" or better in his courses in mathematics, may become a candidate for Honors.

Honors Work:

(a) Work in Mathematical Courses: To graduate with Honors a candidate must complete, during his Honors program, a minimum of eighteen semester hours of course work in regular open courses numbered above 100. These courses must be completed with an average grade of "B" or better.

(b) Tutorial Work: During his Honors program a candidate reads on special topics in mathematics under the personal supervision of a tutor. A candidate must earn a minimum of six semester hours of credit in his tutorial work. He cannot earn more than nine semester hours in his tutorial work, nor more than thirty-six semester hours for his course work in mathematics and his tutorial work combined.

(c) Work in Courses in Related Fields: A candidate must earn a sufficient number of semester hours of credit in courses in related fields to complete with the credit obtained in (a) and (b) the sixty semester hours required in the Honors Group.

A candidate's program must be approved by the Departmental Honors Adviser.

General Honors Examination: At the end of his Senior year each candidate reading for Honors in Mathematics must pass a comprehensive examination on his Honors program. This examination may be written, oral, or both. Faculty members from other departments and other institutions may be invited to participate in this examination.

NAVAL SCIENCE AND TACTICS

PROFESSOR CLAY, CAPTAIN, U. S. NAVY (RET.); ASSOCIATE PROFESSOR STUBBS, LIEUTENANT (J.G.), U.S.N.R.; ASSISTANT PROFESSOR MUTH, LIEUTENANT (J.G.), U.S.N.R.; ASSISTANT PROFESSOR REDDING, LIEUTENANT (J.G.), U.S.N.

51-52. Navigation and Nautical Astronomy.—6 s.h. (w) STAFF

53-54. Seamanship.—6 s.h. (w) STAFF

56. Communication.—3 s.h. (w) STAFF

101-102. Ordnance and Gunnery.—6 s.h. (w) STAFF

103. Naval Administration and Law.—3 s.h. (w) STAFF

104. Naval Machinery (Engineers only).—**3 s.h.** (w) STAFF

151. Tactics and Aviation.—3 s.h. (w) STAFF

153. Damage Control and Engineering.—3 s.h. (w) STAFF

155. Refresher Course.—3 s.h. (w) STAFF

PHILOSOPHY

PROFESSOR WIDGERY, CHAIRMAN; ASSOCIATE PROFESSOR MORGAN, DIRECTOR OF UNDERGRADUATE STUDIES; DR. MCLARTY, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS GILBERT AND SMITH; AND ASSOCIATE PROFESSOR LEONARD

For courses marked with an asterisk there is a prerequisite of three hours of philosophy; admission otherwise by permission of the instructor. Sophomores may in general take courses prescribed for Juniors by permission of the instructor.

48. Introduction to Logic and Scientific Method.—The general principles of logical thinking: the nature of the logical processes involved in the attainment of knowledge in mathematics, the sciences, history, and philosophy. The character of systematic exposition. **3 s.h.** ASSOCIATE PROFESSOR LEONARD

95. Introduction to Ethics.—An elementary consideration of some of the important moral problems in the light of philosophical tradition and the science of values. Sophomores and approved Freshmen. First semester, second semester. **3 s.h.** PROFESSOR GILBERT AND ASSOCIATE PROFESSOR MORGAN

96. The Development of American Philosophy.—3 s.h.
ASSOCIATE PROFESSOR MORGAN

101. Introduction to Philosophy.—This course is intended to acquaint the student with the nature of philosophical problems. First semester, second semester. **3 s.h.** PROFESSORS WIDGERY AND GILBERT, DR. MCLARTY

103. Logic.—Fundamental principles of valid reasoning. **3 s.h.**
ASSOCIATE PROFESSOR LEONARD

104. Scientific Methodology.—A survey of the methods used in various natural and social sciences. **3 s.h.** ASSOCIATE PROFESSOR LEONARD

105. Introduction to the History of Philosophy: Ancient and Medieval.—A study of the great philosophic thinkers with special reference to the problems of a philosophy of human life. **3 s.h.** DR. MCLARTY

106. Introduction to the History of Philosophy: Modern.—A study of the great philosophical thinkers with special reference to the problems of a philosophy of human life. **3 s.h.** PROFESSOR WIDGERY AND DR. MCLARTY

108. Philosophical Ideas in Ancient Greek and Roman Culture.—3 s.h. [Not offered in 1944-45] DR. MCLARTY

114. Seventeenth-Century Philosophy, with Special Reference to Spinoza.* —**3 s.h.** (E) PROFESSOR GILBERT

119. Fundamentals of Christian Morality: An Introduction to Christian Ethics.—3 s.h. DR. MCLARTY

121. The Philosophy of Plato.—Lectures, readings, and reports. Reference will be made to some influences of Platonic modes of thought in English literature. **3 s.h.** DR. MCLARTY
[Not offered in 1944-45]

FOR SENIORS AND GRADUATES

201-202. The Philosophy of Art.—Study of the various phases of the aesthetic experience and forms of beauty with analysis of examples. Particular attention will be given to recent writers on aesthetics. **6 s.h.** (E)
[In alternate years—offered in 1944-45] PROFESSOR GILBERT

203. The Philosophy of Conduct.*—A critical study of the fundamental problems of ethics. **3 s.h.** ASSOCIATE PROFESSOR MORGAN

205. The Philosophy of History.—An inquiry into the logic and methodology of the knowledge of history, and into the metaphysical implications of history. **3 s.h.** (W) PROFESSOR WIDGERY

208. Political Philosophy.—A critical investigation of the bases of political authority and of the ideals of political organization, with reference to prevalent political systems. **3 s.h.** (W) ASSOCIATE PROFESSOR MORGAN

209-210. The Philosophy of Religion.—A critical consideration of the data of empirical religion and the constructive development of a modern philosophy of religion. **6 s.h.** (W) PROFESSOR WIDGERY
[In alternate years—not offered in 1944-45]

211. Philosophy of Civilization.—The meaning and standards of civilization; its growth, decay, and survival. **3 s.h.** (W)
[Not offered in 1944-45] ASSOCIATE PROFESSOR MORGAN

213-214. History of Aesthetics.—The tracing of the historical solutions of traditional problems, such as the nature of imitation, symbolism, the ugly, the sublime, and the comic, the relation of art to nature, to morals, and to economics, the relation of the particular arts to each other, the standard of taste. **6 s.h.** (E) PROFESSOR GILBERT
[In alternate years—not offered in 1944-45]

215. Christian Ethics I.—A historical and systematic study of Christian conceptions of the moral life and its problems. First semester. (W) **3 s.h.** Religion 291. PROFESSOR SMITH

216. Christian Ethics II.—A critical consideration of selected modern social problems from the viewpoint of Christian ethics. **3 s.h.** (W)
PROFESSOR SMITH

217. The Philosophy of Aristotle.*—Prerequisite: course 105.
[Not offered in 1944-45] DR. MCLARTY

224. **Contemporary Philosophy.**—A study of the leading philosophical movements in Europe and America in the last fifty years. 3 s.h.
[Not offered in 1944-45] PROFESSOR WIDGERY

226. **The History of Ethics.**—Theories of morality from Socrates to the present time. 3 s.h. ASSOCIATE PROFESSOR MORGAN
[In alternate years—not offered in 1944-45]

231-232. **Philosophy of Science.**—A historical and critical survey of the relations of natural science to general philosophy. 6 s.h.
ASSOCIATE PROFESSOR LEONARD

236. **Oriental Philosophy I.**—Chinese Philosophy. 3 s.h.
[In alternate years—not offered in 1944-45] PROFESSOR WIDGERY

238. **Oriental Philosophy II.**—Indian Philosophy. 3 s.h.
[In alternate years—not offered in 1944-45] PROFESSOR WIDGERY

241. **Logic.**—The characteristic structure of a logical system. Forms of propositions and of arguments. Logical relations of propositions. Levels of analysis. 3 s.h. ASSOCIATE PROFESSOR LEONARD

242. **Scientific Methodology.**—A survey of the methods used in the different branches of the natural and social sciences in seeking and testing knowledge. 3 s.h. ASSOCIATE PROFESSOR LEONARD

244. **Nietzsche and the Nineteenth Century.**—Studies in the major trends of intellectual life of the period, focused around the work of Nietzsche. 3 s.h. (w) ASSOCIATE PROFESSOR MORGAN
[In alternate years—not offered in 1944-45]

248. **Philosophy of Values.**—First semester. 3 s.h. (w)

RELATED COURSES IN OTHER DEPARTMENTS

Education 200. Introduction to the Philosophy of Education.

Greek 107-108. Plato.—Euripides.

Greek 209-210. Plato.

History 221-222. The Age of the Renaissance.

Mathematics 287. Mathematical Logic.

Mathematics 288. Foundations of Mathematics.

Physics 213-214. Contemporary Physics.

Political Science 223. Political Thought to the Seventeenth Century.

Political Science 224. Modern Political Theory.

Psychology 228. Psychology of Belief.

NAVY V-12 COURSES

PL1. Philosophy I.—A study of the philosophy of Plato and its relationship to Greek philosophy in general. 3 s.h.

PL2. Philosophy II.—Introduction to scientific philosophy. 3 s.h.

DEPARTMENTAL MAJOR

The student is required to take courses amounting to at least eighteen credit hours in the Department. Of these, six must be Philosophy 105-106, Introduction to the History of Philosophy; and six must be from courses in the 200 series. The student is advised to consult with an instructor in the Department as to the courses most suitable to fit in his general plan of study.

PHYSICS

PROFESSOR NIELSEN, CHAIRMAN; PROFESSOR HATLEY, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR CARPENTER, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS EDWARDS, NORDHEIM, SPONER; ASSOCIATE PROFESSORS CONSTANT AND MOUZON; ASSISTANT PROFESSOR BONNER; DR. HEBB; MESSRS. BASS, EGERTON, GREENEWALD, KOZA, KNIGHT, MOORE AND SELL; AND ASSISTANTS

The courses in physics are designated to meet the needs of three classes of students: (1) those desiring to specialize in physics with a view to work in teaching or invetigation; (2) those intending to pursue the study of medicine, biology, or chemistry; (3) those looking forward to the study of engineering. The work of the first year is designed to lay a broad foundation for subsequent study.

An elementary knowledge of all the calculus and credit for 12 semester hours in physics are required in all courses numbered 200 and above.

1-2. Introductory Physics.—This course traces historically and experimentally the development of great principles. This course is open to Freshmen, Sophomores, and Juniors and meets the general science requirement. Three-hour recitation and one two-hour laboratory per week. **8 s.h.** (W & E)
THE STAFF

17-18. Engineering Physics.—A course covering the field of general physics with emphasis on fundamental principles. Open only to engineering students. **6 s.h.** (E) ASSOCIATE PROFESSOR MOUZON AND ASSISTANT PROFESSOR BONNER

51-52. General Physics.—This course is designed for Sophomores and Juniors. It meets in a thorough way the requirements for entrance into the study of medicine and is well suited for the general science student. A limited number of Freshmen who present physics for entrance and who are taking the required mathematics concurrently may be admitted by permission of the instructor. Three lectures and one three-hour laboratory period each week. Prerequisite: Mathematics 7-8 or equivalent. **8 s.h.** (W)
PROFESSOR HATLEY; ASSISTANT PROFESSORS CARPENTER AND BONNER

57-58. Engineering Physics.—This course is a continuation of Physics 17-18 open to engineering students upon satisfactory completion of 17-18. Two lectures (E) and one three-hour laboratory (W) each week. **6 s.h.**
ASSOCIATE PROFESSOR MOUZON AND ASSISTANT PROFESSOR BONNER

59-60. Elementary Atomic Physics.—A lecture and demonstration course dealing in a descriptive manner with modern developments in physics. Prerequisite: a year course of college physics and the calculus completed or taken concurrently. **6 s.h.** (W) PROFESSOR NIELSEN

61. Mechanics.—This course covers in a thorough manner the elements of general mechanics. Two lectures and one two-hour laboratory or problem period per week. Prerequisite: a year course of college physics and the calculus completed or taken concurrently. **3 s.h.** (W) PROFESSOR NORDHEIM

62. Heat.—A study of thermometry, specific heats, thermal expansion, transfer of heat, change in state, saturated vapor, hygrometry, the laws of thermodynamics and pyrometry. Two lectures and one two-hour laboratory per week. Prerequisite: a year course in college physics and the calculus completed or taken concurrently. **3 s.h.** (W) THE STAFF

65-66. Intermediate Physics.—Lecture demonstrations and recitations. A course, to follow Physics 1-2 or its equivalent, covering selected topics and including a more advanced treatment of electricity and light during the first term and in the second term an extended treatment of conduction of electricity through gases, electron theory of matter, x-rays, radioactivity, thermionics, electric waves, and photoelectricity. Prerequisite: Physics 1-2 or its equivalent. **6 s.h.** (w) PROFESSOR EDWARDS

70. Elementary Electronics.—This course is designed to acquaint the student with the principles of vacum tubes and their application to elementary circuits. Three lectures and one three-hour laboratory per week. Prerequisite: a year in college physics. **4 s.h.** (w) ASSOCIATE PROFESSOR MOUZON

103. Electricity and Magnetism.—An intermediate course covering electrostatics, magnetostatics, current theory, electromagnetism, and electron theory. Prerequisite: a year course in college physics and the calculus. Three lectures and one three-hour laboratory period per week. **4 s.h.** (w) ASSOCIATE PROFESSOR CONSTANT

104. Electrical Measurements.—Exact measurements of resistance, current, voltage, inductance, capacity, etc. Two lectures an one three-hour laboratory period per week. **3 s.h.** (w) PROFESSOR NIELSEN AND ASSOCIATE PROFESSOR CONSTANT

106. Photography.—A quantitative study of the more important photographic processes and the application of photography to the sciences and arts. Two lectures and one three-hour laboratory period. Prerequisite: a year course in college physics. **3 s.h.** (w) ASSISTANT PROFESSOR BONNER

108. Physical Optics.—An intermediate course dealing with reflection, refraction, interference diffraction, polarization and dispersion. Prerequisite: a year course in college physics and the calculus. Three lectures and one three-hour laboratory period per week. **4 s.h.** (w) PROFESSOR SPONER

213-214. Contemporary Physics.—A course which covers in a descriptive manner the fundamental concepts and experimental basis of modern theories of the structure of matter. **6 s.h.** (w) ASSOCIATE PROFESSOR CONSTANT

219. Electron Tubes and Their Application.—Theory and application of electron tube circuits with special emphasis on their use in scientific research. Three hours of lecture and one three-hour laboratory per week. **4 s.h.** (w) ASSOCIATE PROFESSOR MOUZON

221-222. Introduction to Theoretical Physics.—Lectures and problems on the fundamental principles and mathematical theory of the general field of physics, constituting a thorough foundation for subsequent specialization and more intensive study. **8 s.h.** (w) ASSOCIATE PROFESSOR CONSTANT

225-226. Elementary Investigations.—The aim of this course is to provide training in the laboratory and library methods of physical research. Properly qualified students may conduct elementary investigations under the supervision of a member of the Staff. **3-6 s.h.** (w) THE STAFF

NAVY V-12 COURSES

PH1 and PH2. General Physics.—May be substituted for Physics 1-2, Physics 17-18 and Physics 57-58, or Physics 51-52.

PH3-4. Mechanics and Heat.—May be substituted for Physics 61 and Physics 62. **7 s.h.**

PH5-6. Theory of Electrical Measurements.—May be substituted for Physics 103. **5 s.h.**

***PH7. Electricity and Magnetism I.**—3 s.h.

***PH10. Wave Motion and Sound.**—5 s.h.

***PH11. Analytical Mechanics and Thermodynamics.**—4 s.h.

PH12. Electron Physics.—May be substituted for Physics 213. **3 s.h.**

PH13. Optics.—May be substituted for Physics 108. **5 s.h.**

PH14-15. Electronics.—May be substituted for Physics 219. **7 s.h.**

DEPARTMENTAL MAJOR

A. For the A.B. degree:

Prerequisites: Physics 1-2 or equivalent, and Mathematics 1-2 or 7-8.

Major Requirements: 18 to 24 hours in courses approved by the Department. (Students who have a considerable number of hours in a closely allied field may, with the approval of the Department, count Physics 51-52 or Physics 57-58 as a major requirement.)

B. For the B.S. degree:

Prerequisites: Physics 1-2, Chemistry 1-2 and Mathematics 7-8 or equivalent.

Major Requirements: Not less than 24 hours in courses approved by the Department, not less than 6 hours of which must be in the 200 group.

DEPARTMENTAL HONORS PROGRAM

Prerequisites: Physics 1-2, 51-52, or 57-58 and 6 s.h. additional work in physics above the Freshman level; Mathematics 6 s.h. and Chemistry 1-2.

Honors Program: Physics 103, 108, 219, and 221-222; Mathematics 51-52 and 131; electives subject to the approval of the Departmental Honors Committee, 25 s.h. or enough to satisfy the requirements for graduation, of which at least 6 s.h. must be either a course in Geology or an advanced course in Chemistry, Botany, Zoology, or Mathematics.

In addition, the student will arrange with his adviser for the performance of a limited number of elementary physical investigations. This will consist of both readings and experimental work and in general will constitute a survey of the classical and modern aspects of physics for which 10 s.h. credit will be allowed.

At the end of both Junior and Senior years, the student will be given both an oral and a written examination in the field of physics.

POLITICAL SCIENCE

PROFESSOR WILSON, CHAIRMAN; PROFESSOR RANKIN, DIRECTOR OF UNDERGRADUATE STUDIES; PROFESSOR VON BECKERATH; ASSOCIATE PROFESSORS COLE AND SHIPMAN; ASSISTANT PROFESSORS GIBSON, HALLOWELL, LINEBARGER, SIMPSON, AND WALTER; MR. RICHARDS; MISS EVANS

21. Principles of Government.—An introductory study of principles relating to the nature and organization of political power, and a consideration of the status of individuals under different types of government. **3 s.h.** (E)
ASSISTANT PROFESSOR SIMPSON AND MR. RICHARDS

22. International Politics.—A study of international governmental problems, wtih attention to past experiments in international co-operation through political, judicial, and administrative agencies, power politics and the present war, and the current effort of the United Nations looking to world government and administration. **3 s.h.** (E) ASSISTANT PROFESSOR SIMPSON

* PH7, PH10, PH11 may be substituted for Physics 221-222.

61-62. American Government and Politics.—A study of the American governmental system, including the fundamentals of American democracy and the function of national, state, and local governments, with special attention to governmental problems in wartime and the present world position of the United States. **6 s.h.** (E & W)

PROFESSOR RANKIN; ASSISTANT PROFESSORS HALLOWELL, SIMPSON AND WALTER; MR. RICHARDS; MISS EVANS

Course 61-62 is ordinarily taken before any advanced course in political science. A student who has not had course 61-62 or equivalent work may take an advanced course in the Department with the approval of the instructor giving the advanced course.

Course 61 and course 62 will each be offered during each semester.

111. Contemporary Problems in Far Eastern Politics.—An introductory survey of international politics in Eastern Asia and the Western Pacific. **3 s.h.** (W) ASSISTANT PROFESSOR LINEBARGER

[Not offered in 1944-45]

113. Colonialism and Nationalism in Southeastern Asia.—A study of indirect rule, native institutions, self-determination, and conquest in the Asiatic regions indicated. **3 s.h.** (W) ASSISTANT PROFESSOR LINEBARGER

[Not offered in 1944-45]

123. American Political Theory.—A survey of the development of political ideas in America from Puritanism to the present day, with emphasis upon the growth of American democratic thought. **3 s.h.** (W)

ASSISTANT PROFESSOR HALLOWELL

125. American Political Parties and Practical Politics.—A study of the historical development, organization, and methods of political parties in the United States. **3 s.h.** (E & W) ASSISTANT PROFESSOR SIMPSON

136. Major European Governments.—A study of the organization and functioning of the governments of Great Britain, Germany, Italy, and Russia. **3 s.h.** (E & W) ASSISTANT PROFESSOR HALLOWELL

141. Public Regulation.—An introduction to the administrative process, emphasizing the nature, types, and techniques of public activity; and the methods and problems of protecting the public interest. **3 s.h.** (E & W)

ASSISTANT PROFESSOR WALTER

142. Government Regulation in Wartime.—National administration under war conditions and its relation to permanent government departments; problems of raw materials, industrial productions and plant conversion, labor transportation, price control, and civilian mobilization. **3 s.h.** (E & W)

ASSISTANT PROFESSOR WALTER

151-152. Spanish-American Political Institutions.—A study of Spanish-American governments as illustrated in Argentina, Chile, Colombia, and Uruguay. The first semester is devoted to the colonial and independence periods, the second to the national. **6 s.h.** (W) ASSISTANT PROFESSOR GIBSON

[Not offered in 1944-45]

172. Government and Agriculture.—An analysis, in the light of current problems, of the policy and administration of governmental aid to agriculture in the United States, and a comparison of these policies with those of selected European countries. **3 s.h.** (W) PROFESSOR VON BECKERATH

174. Politics and Economics.—An analysis of the influence of politically dominant forces and ideologies upon economic policies in societies of principal Western countries since the seventeenth century. **3 s.h.** (W)

PROFESSOR VON BECKERATH

207. **American Constitutional Law and Theory.**—A study of leading principles of American government, as developed through judicial interpretation of the Constitution. 3 s.h. (E & W) PROFESSOR WILSON

209. **State and Local Government in the United States.**—A study of the historical development of state and local governments, their present organization, their relation to each other and to the Federal Government. 3 s.h. (E & W) PROFESSOR RANKIN

211. **Political Institutions of the Far East.**—A study of the governmental systems of Japan, Korea, and China from the Chou Dynasty to the present. 3 s.h. (W) ASSISTANT PROFESSOR LINEBARGER
[Not offered in 1944-45]

212. **International Politics of the Far East.**—A study of changing power relationships in the Orient since the arrival of the Europeans. 3 s.h. (W)
[Not offered in 1944-45] ASSISTANT PROFESSOR LINEBARGER

223. **Political Thought to the Seventeenth Century.**—A survey of political thought from the time of Plato to the close of the sixteenth century. 3 s.h. (E) PROFESSOR WILSON

224. **Modern Political Theory.**—Political theories of the seventeenth and eighteenth centuries, and of the first half of the nineteenth, with a study of their influence upon modern political institutions. 3 s.h. (E) PROFESSOR WILSON

225-226. **Comparative Government.**—A comparative study of modern political institutions, with special reference to bureaucracy, federalism, fascism, dictatorship, constitutions, representation, parliamentarism, and separation of powers. 6 s.h. (W) ASSISTANT PROFESSOR HALLOWELL

227-228. **International Law.**—Elements of international law, particularly as interpreted and applied by the United States. 6 s.h. (E & W) PROFESSOR WILSON

229. **Recent and Contemporary Political Theory.**—A study of the more significant contributions to political theory from 1850 to the present. 3 s.h. (W) ASSISTANT PROFESSOR HALLOWELL

230. **American Political Institutions.**—A study of the formation and development of institutions of the national government in the United States, with historical and analytical treatment. 3 s.h. (E & W) PROFESSOR RANKIN

241-242. **The Administrative Process.**—The function and theory of organization, delegated legislation, administrative adjudication, the control of administration, and special problems in economic balancing and proprietary activities. 6 s.h. (W) ASSISTANT PROFESSOR WALTER

244. **Administrative Law.**—The law of the administrative process including the nature of regulatory authority, the status and liability of public officers, administrative tribunals and judicial review of administrative action. 3 s.h. (W) ASSISTANT PROFESSOR WALTER
[Not offered in 1944-45]

246. **Legislation.**—A study of the legislative process with attention to procedure, methods, techniques, delegation of discretion, and the use of controls. 3 s.h. (W) ASSISTANT PROFESSOR WALTER

252. **Spanish-American Constitutionalism.**—A comparative study of the nature, sources and use of political authority in the constitutional law of Argentina, Chile, Colombia, and Uruguay. 3 s.h. (W)
[Not offered in 1944-45] ASSISTANT PROFESSOR GIBSON

271. **Sociopolitics and Capitalism.**—Labor and labor policies in Western Europe and the United States in the nineteenth and twentieth centuries; "social security" during and after the war. 3 s.h. (W)
PROFESSOR VON BECKERATH

291. **Municipal Government.**—A study of problems relating to the structural system and activities of municipalities in the United States. 3 s.h. (E & W) PROFESSOR RANKIN

292. **Municipal Administration.**—A study of principles and methods of municipal administration in the United States. 3 s.h. (E & W)
PROFESSOR RANKIN

NAVY V-12 COURSES

POL1. Introduction to Politics.—May be substituted for Political Science 61. 3 s.h.

POL2. Comparative Government.—May be substituted for Political Science 62. 3 s.h.

POL3. Comparative Economic and Political Systems.—May be substituted for Political Science 136. 3 s.h.

PSYCHOLOGY

PROFESSOR LUNDHOLM, CHAIRMAN; ASSISTANT PROFESSOR KEMP, DIRECTOR OF UNDEGRADUATE STUDIES; PROFESSOR RHINE; ASSOCIATE PROFESSORS ADAMS AND ZENER; VISITING ASSOCIATE PROFESSOR CATTELL; DR. KOCH

91. **Introduction to Psychology.**—A comprehensive survey of contemporary psychology. This course is offered each semester and is a prerequisite to all other courses in the Department. 3 s.h. (E & W)
PROFESSOR LUNDHOLM; ASSOCIATE PROFESSORS ADAMS AND ZENER; VISITING ASSOCIATE PROFESSOR CATTELL; DR. KOCH

96. **Applied Psychology.**—A survey of the application of psychological principles and methods to problems in the fields of pedagogy, clinical psychology, business, industry, government and law. 3 s.h. (E)
ASSOCIATE PROFESSOR ZENER

103. **Conation and Our Conscious Life.**—Analysis of adult human experience and its role in adaptive and creative endeavor. 3 s.h. (E)
PROFESSOR LUNDHOLM

104. **Comparative Psychology.**—3 s.h. ASSOCIATE PROFESSOR ADAMS
[Not offered in 1944-45]

106. **Abnormal Psychology.**—[Limited enrollment; preference pre-medical Juniors.] 3 s.h. (E, spring; W, each semester.) PROFESSOR LUNDHOLM

110. **Applied Social Psychology.**—A general introduction to social psychology with emphasis on areas of applied research such as propaganda analsis, public opinion polling, attitude measurement, morale, problems of democratic leadership. 3 s.h. (E) DR. KOCH

111. **Advanced General Psychology: Learning, Memory, Perception, Thinking.**—3 s.h. ASSOCIATE PROFESSOR ZENER
[Not offered in 1944-45]

112. **Advanced General Psychology: Action, Motivation, Emotion.**—A consideration of the psychological, physiological, and social factors involved in the motivation of behavior. 3 s.h. ASSOCIATE PROFESSOR ZENER
[Not offered in 1944-45]

115. **Psychology of Personality.**—The nature of human personality; a study of relevant facts and viewpoints and a choice of a working concept for use in adjustment to life. Individual differences, their measurement, and their development are considered. 3 s.h. (E) PROFESSOR RHINE

116. **Psychology of Adjustment.**—The application of psychology to the solution of problems of personality. The causes, the study, and the correction of maladjustments are discussed, with real problems as the data. 3 s.h. (E) PROFESSOR RHINE

122. **Psychology of Aesthetics.**—3 s.h. (E) PROFESSOR LUNDHOLM

128. **Psychology of Belief.**—3 s.h. PROFESSOR LUNDHOLM
[Not offered in 1944-45]

204. **Motivation and Learning.**—3 s.h. ASSOCIATE PROFESSOR ZENER
[Not offered in 1944-45]

206. **Social Psychology.**—Kinds of membership character; psychology of social movements; propaganda; revolution; nationalism; war. 3 s.h. (E) ASSOCIATE PROFESSOR ADAMS

207. **Psychology of Memory, Thinking, Perceiving.**—Problems of human learning, memory, thinking, perceiving, with emphasis on the factors of organization, meaning, motivation. 3 s.h. (E) ASSOCIATE PROFESSOR ZENER

*209. **Experimental Methods in Human Psychology.**—A systematic study of experimental methods in psychology, with minor problems. Lectures and laboratory. 4 s.h. (E) ASSOCIATE PROFESSOR ZENER

212. **Physiological Psychology.**—3 s.h. ASSISTANT PROFESSOR KEMP
[Not offered in 1944-45]

215. **Developmental Psychology.**—The environmental forces conditioning the development of personality structure and the mechanisms contributing to psychological growth; critical periods in character formation from infancy to senescence. 3 s.h. (E) ASSOCIATE PROFESSOR ADAMS

*223. **Abnormal Psychology.**—3 s.h. (E, spring only.) PROFESSOR LUNDHOLM

226. **Psychology: Historical and Theoretical.**—3 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR ZENER

231-232. **Introduction to Research.**—Admission only after approval of the instructor supervising the research. 2 or 3 s.h. for one semester.
PROFESSORS LUNDHOLM AND RHINE; ASSOCIATE PROFESSORS ADAMS AND ZENER; DR. KOCH

NAVY V-12 COURSES

PS1. **Psychology I—General.**—May be substituted for Psychology 91. 3 s.h.

PS2. **Psychology II—Abnormal.**—May be substituted for Psychology 106. 3 s.h.

PS3. **Social Psychology.**—May be substituted for Psychology 110. 3 s.h.

* Limited registration. Admission only after consultation with instructor.

DEPARTMENTAL MAJOR

Prerequisites: Psychology 91 and Zoology 1 and 2 or equivalent in biology.

Major Requirements: Eighteen semester hours in psychology in addition to Psychology 91, at least six semester hours of which must be taken in Senior-Graduate courses.

DEPARTMENTAL HONORS PROGRAM

Departmental Honors in psychology are governed by the general rules covering all Honors programs.

Prerequisite: The minimum requirement for admission to Honors in psychology is the completion of Psychology 91 with a grade of "B" or higher. Completion of Zoology 1-2 is strongly recommended.

Departmental Honors Program:

(a) Honors Readings.—Tutorial work with a member of the Department designated by the Honors Committee. This work shall be counted as the equivalent of three semester hours in the Junior and six semester hours in the Senior year.

(b) Courses in Psychology.—At least six courses in the Department in addition to the prerequisite (of which at least three must be of Senior-Graduate level).

(c) Courses in Related Field.—To complete the total of sixty semester hours. All courses are to be chosen by consultation with the Departmental Honors Adviser.

(d) At the end of the Senior year.—A final written and oral examination on the fields of psychology chosen, and an experimental or critical paper on a selected problem.

RELIGION

PROFESSOR MYERS, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES; ASSOCIATE PROFESSOR PETRY, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS CANNON, ORMOND, AND SPENCE; ASSOCIATE PROFESSORS CLARK, OUTLER, AND STINESPRING; ASSISTANT PROFESSOR CRUM; AND MRS. SPENCE

The minimum uniform requirement in Religion may be fulfilled by completing six semester hours in any of the following courses: 1-2, 51-52, 101-102, 103-104, 114, 151, 163, 167-168, 169-170, 181-182, 191. Classes in these courses are limited to fifty students.

1. **The English Bible.**—Survey of the contents of the historical and prophetic books of the Old Testament with particular reference to the literary, historical, and religious values. Required of all students majoring in religion, and is open to others as an elective in the Freshman year. **3 s.h.**
(E & W) ASSOCIATE PROFESSOR PETRY; PROFESSOR ORMOND; ASSISTANT PROFESSOR CRUM; AND MRS. SPENCE

2. **The English Bible.**—Study of the Psalms, wisdom literature, and the literature of the New Testament with special attention given to the literary, historical, and religious values. Required of all students majoring in religion, and is open to others as an elective in the Freshman year. **3 s.h.**
(E & W) ASSOCIATE PROFESSOR PETRY; PROFESSOR ORMOND; ASSISTANT PROFESSOR CRUM; AND MRS. SPENCE

51. **The History of the Hebrew People.**—A study of the Hebrew people that gives attention to their political history, their religious and social institutions, their literary development, with special reference to their contributions to civilization. For Sophomores; not open to students who have had Religion 1. **3 s.h.** (E & W)
PROFESSORS MYERS AND SPENCE; ASSOCIATE PROFESSOR OUTLER; ASSISTANT PROFESSOR CRUM; AND MRS. SPENCE

52. **New Testament Life and Literature.**—A study of the literature of the New Testament, its historical background, and its religious value. For Sophomores; not open to students who have had Religion 2. **3 s.h.** (E & W)
PROFESSORS MYERS AND SPENCE; ASSOCIATE PROFESSOR OUTLER; ASSISTANT PROFESSOR CRUM; AND MRS. SPENCE

101. **The Social Teachings of the Prophets and Jesus.**—A study of the social teachings of the Old Testament prophets and of the social ideals of Jesus as they appear in the four gospels. **3 s.h.** (W) PROFESSOR ORMOND

102. **The Christian Church in the Social Order.**—This course will deal with the Christian Church in its service to society and its relation to other social institutions. **3 s.h.** (W) PROFESSOR ORMOND

103. **The Prophets of the Old Testament.**—In this course a study is made of the history and nature of prophecy, with particular attention being given to the messages of the outstanding pre-exilic literary prophets. **3 s.h.** (W)
PROFESSOR MYERS

104. **The History and Religion of the Jews to the Roman Period.**—The work in this course is based largely on exilic and post-exilic prophecy, the wisdom literature, and the earlier apocalyptic and apocryphal literature. **3 s.h.** (W) PROFESSOR MYERS

114. **The Life and Teachings of Jesus.**—This course considers the period in which Jesus lived, the record of his life, and the meaning of his teachings as recorded in the Synoptic Gospels. **3 s.h.** (W) PROFESSOR MYERS

117. **The History and Thought of Judaism I.**—A history of the Jewish people and a study of their major religious and literary contributions from the time of Alexander the Great through the beginnings of the eighteenth century. **3 s.h.** (W) DR. GOLDIN

118. **The History and Thought of Judaism II.**—A study of modern Jewish history, its problems, major movements, and distinctive features from the eighteenth century to the outbreak of World War II. **3 s.h.** (W) DR. GOLDIN

151. **Personality and Human Values.**—Problems of college students in adjusting their personalities to an age of science, machinery, social conflict and doubt. Special attention will be given to spiritual values. **3 s.h.** (W)
PROFESSOR HART

163. **Religious Education of Children.**—An analysis of the religious life, interests and capacities of children; including a study of the problems, objectives, methods, and materials involved in teaching religion to children. Directed to the needs of the lay workers in the church. **3 s.h.** (E)
MRS. SPENCE

167. **Contemporary Religious Problems.**—A course that deals with the main interests of life from the standpoint of their social and religious significance. **3 s.h.** (W) PROFESSOR SPENCE

168. **Masterpieces of Great Religious Literature.**—This course is devoted to the religious thought in the literature from the second to the twentieth centuries, with special attention given modern religious poetry. **3 s.h.** (W)
(Old number SR.270.) PROFESSOR SPENCE

169. **Character Problems.**—Problems of youth in character building. **3 s.h.** (w) ASSISTANT PROFESSOR CRUM

170. **Religion and the Family.**—A study of the American home in its contemporary social and religious aspects. **3 s.h.** (w) ASSISTANT PROFESSOR CRUM

181. **The Nature and Early Development of Religion.**—Introduction to the early history of religion, the beliefs and practices of the more primitive peoples, and the religious life of the ancient world. For Juniors and Seniors. **3 s.h.** (w) PROFESSOR CANNON

182. **Living Religions of the World.**—A survey of the religious systems of India, China, and Japan, followed by a study of Judaism, Mohammedanism, and Christianity, the object being to trace the historical development of each religion. For Juniors and Seniors. **3 s.h.** (w) (Old number 282.) PROFESSOR CANNON

191. **Fundamentals of Christian Morality: An Introduction to Christian Ethics.** (Identical with Philosophy 119.) **3 s.h.** (w) DR. MCLARTY

193. **A Study of Materials Suitable for Public School Courses in Religion and Ethics,** including the English Bible and other religious literature. **3 s.h.** (E) ASSISTANT PROFESSOR CRUM

201-202. **First Hebrew.**—A study in the forms of the Hebrew language with reading of selected Old Testament narratives. **6 s.h.** (w) ASSOCIATE PROFESSOR STINESPRING

211-212. **Hellenistic Greek.**—Designed for beginners to enable them to read the Greek New Testament. **6 s.h.,** provided the student takes six semester hours in New Testament Greek the following year. **6 s.h.** (w) ASSISTANT PROFESSOR CLARK

265. **Religious Drama.**—A historical survey of the relation between religion and drama, a study of the uses and underlying principles of religious drama, and a critical examination and interpretation of selected dramatic productions. **3 s.h.** (w) PROFESSOR SPENCE

268. **Religious Drama Construction and Production.**—Project work in the creation and production of religious drama and pageants. Practice in the selection, staging, lighting, and direction of religious plays. Construction of dramatic programs of worship. **3 s.h.** (w) PROFESSOR SPENCE

DEPARTMENTAL MAJOR

Prerequisite: Religion 1-2, or 51-52.

Major Requirements: A major in the Department of Religion consists of twenty-four semester hours of work, exclusive of courses primarily for Freshmen, eighteen semester hours of which shall be selected with the approval of the instructor under whose supervision the student does his major work.

DEPARTMENTAL HONORS PROGRAM

General Rules:

I. The Departmental Honors Program constitutes the work of the Honors student during the Junior and Senior years. This program shall be the equivalent of sixty semester hours of work.

II. The minimum amount of work that may be taken in the Department of Religion shall be the equivalent of twenty-four semester hours, and the maximum shall be the equivalent of thirty-six semester hours. Of this, the work done in the Honors tutorials shall count fifteen hours, six hours for the Junior

year, six hours for the Senior year, and three hours for the comprehensive examination at the end of the Senior year.

III. The related work, which shall constitute at least two fifths of the Honors program, that is, the equivalent of twenty-four semester hours, must be distributed among not less than two departments, unless the departmental committee gives special permission for the student to take his related work in one department.

Prerequisite:

The minimum requirement for admission to Honors in Religion is the completion of a course in Religion during the Sophomore year on which the student makes at least a grade of "B."

Normal Program:

The normal program for the Honors student in the Junior year shall consist of the Honors tutorial, two courses in the Department of Religion, and two courses in related departments; in the Senior year the work shall consist of the Honors tutorial, one and one-half courses in Religion, and two in related departments.

General Honors Examinations:

Two comprehensive written examinations and a supplementary oral examination will be held at the end of the Senior year to test the student's knowledge of the special field in which he has done his Honors work.

ROMANCE LANGUAGES

PROFESSOR WEBB, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR DAVIS, SUPERVISOR OF FRESHMAN INSTRUCTION IN FRENCH AND SPANISH; PROFESSORS COWPER AND JORDAN; ASSOCIATE PROFESSORS LUNDEBERG AND WALTON; ASSISTANT PROFESSORS BRIDGERS, DOW, QUYNN, RAYMOND, REID, AND YOUNG; MRS. DILLINGHAM, MME. DOW; AND ASSISTANTS

The courses in French from 1 to 52 inclusive, and 57-58 are for the general student. They give a reading knowledge of standard French and furnish an introduction to French letters. Courses 55-56, 107, 127-128, and 217 offer training in the French language. The literary courses are devoted to the systematic study of classical and modern French literature. Advanced students are offered an introductory course in Old French and Old French literature. Those planning to teach will find in course 218 a treatment of the teaching of French.

The course in Italian includes the reading of Dante's *Inferno*.

The courses in Spanish from 1 to 68 inclusive are for the general student. Their objectiye is the attainment of ability to read the language with sufficient ease to be able to interpret standard literary Spanish. Courses 71 and 72, 171 and 172, 253, and 260 offer further training in the oral and written use of the language. The remaining courses are devoted to the interpretation of modern and classic Spanish and Spanish-American literature.

FRENCH

1-2. Elementary French.—6 s.h. (W & E)
PROFESSOR WEBB; ASSOCIATE PROFESSOR WALTON; ASSISTANT PROFESSOR DOW

3-4. French Prose.—Prerequisite: French 1 and 2, or two years of high school French. **6 s.h.** (W & E)
PROFESSORS COWPER AND JORDAN; ASSOCIATE PROFESSOR WALTON; ASSISTANT PROFESSORS DOW AND RAYMOND

51-52. Introduction to French Literature.—Prerequisite: French 3 and 4 or equivalent. **6 s.h.** (W & E)
PROFESSORS COWPER AND JORDAN; ASSOCIATE PROFESSOR WALTON; ASSISTANT PROFESSORS RAYMOND AND YOUNG

57-58. Introduction to French Literature.—Identical in content with 51-52, this course has less translation into English. Various exercises will replace translation. Considerable use will be made of French in conducting the course Open to those whose previous training or superior record indicates that they are qualified. Prerequisite: French 3 and 4 or equivalent. **6 s.h.** (E)
PROFESSOR WEBB

Students will take course 51-52 or 57-58. They will not take both 51 and 57 or 52 and 58. Total credit in these courses is limited to six semester hours. They are the basic prerequisites to all higher courses.

55. Exercises in Spoken French.—1 s.h. (E) MME. DOW

56. Exercises in Spoken French.—1 s.h. (E) MME. DOW

107. French Composition.—3 s.h. (E)
PROFESSOR COWPER AND ASSISTANT PROFESSOR RAYMOND

108. The French Romantic Movement.—3 s.h. PROFESSOR COWPER

110. Poems of Victor Hugo.—3 s.h. ASSISTANT PROFESSOR DOW
[Not offered in 1944-45]

111. French Drama since 1850.—3 s.h. ASSISTANT PROFESSOR YOUNG

112. French Drama since 1850.—3 s.h. ASSISTANT PROFESSOR YOUNG

113. French Drama of the Seventeenth Century.—Selected plays of Corneille, Racine, and Molière. **3 s.h.** (E) ASSISTANT PROFESSOR RAYMOND

115. Masterpieces of Balzac.—A study of the outstanding examples of Balzac's art as a story teller and creator of character. **3 s.h.** (E)
ASSISTANT PROFESSOR BRIDGERS

116. Balzac and His Age.—Reading of selected works of Alphonse Daudet and other continuers of Balzac's realism. Course to be conducted in French. **3 s.h.** (E) ASSISTANT PROFESSOR BRIDGERS

127. Advanced French Composition.—Prerequisite: French 107 or equivalent. **3 s.h.** (E) MME. DOW

128. Advanced French Composition.—Prerequisite: French 107 or equivalent. **3 s.h.** (E) MME. DOW

129. French Readings on Great Men and Events in the French Tradition.—Oral work in French. Optional reading along various lines. Prerequisite: French 51-52 or equivalent. **3 s.h.** (W) ASSOCIATE PROFESSOR WALTON

213. French Classicism.—From Malherbe to La Bruyère. **3 s.h.**
ASSOCIATE PROFESSOR WALTON

214. French Classicism.—From La Bruyère to the Encyclopedists and Beaumarchais. **3 s.h.** ASSOCIATE PROFESSOR WALTON

215-216. The Modern French Novel.—A survey of the novel form from the seventeenth to the twentieth centuries, with particular attention to the analysis of fundamental literary tendencies: classicism, raitonalism, romanticism, and realism. **6 s.h.** (E) PROFESSOR JORDAN

217. **French Phonetics.**—French sounds and French spelling; pronunciation drills; exercises in phonetic transcription and dictation; diction, aural comprehension. Prerequisite: 3 s.h. from courses 107 or 127-128. 3 s.h. (E)
PROFESSOR WEBB

218. **Materials and Methods.**—History of the teaching of French; methods; the course of study; analysis and criticism of representative texts, tests, and examinations; objectives in the light of teaching conditions, equipment and future application. Prerequisite: French 107. 3 s.h. (E)
PROFESSOR WEBB

219. **Old French.**—An introduction to the Old French language and literature. The *Chanson de Roland*—*Aucassin et Nicolette*. 3 s.h. (E)
PROFESSOR COWPER

220. **Old French.**—Types of Old French literature. The Romances of Chivalry. 3 s.h. (E) PROFESSOR COWPER

227. **French Poetry since Théophile Gautier.**—Parnassianism and symbolism. 3 s.h. ASSOCIATE PROFESSOR WALTON
[Not offered in 1944-45]

232. **Rousseau and the Beginnings of Romanticism.**—3 s.h.
[Not offered in 1944-45] PROFESSOR COWPER

233. **Main Currents of Modern French Literature.**—A survey of the principal literary tendencies from the seventeenth to the nineteenth centuries. Selected illustrative readings from leading authors. 3 s.h. PROFESSOR WEBB
[Not offered in 1944-45]

ITALIAN

181-182. **Italian.**—Introduction to the language, modern Italian readings, and Dante's *Inferno*. 6 s.h. (E) PROFESSOR WEBB

ROMANCE LITERATURE IN TRANSLATION

191. **Romance Literature of the Renaissance in Translation.**—The Renaissance in Italy: Dante, Petrarch, Boccaccio, Machiavelli. 3 s.h. (E)
ASSISTANT PROFESSOR BRIDGERS

192. **Romance Literature of the Renaissance in Translation.**—The Renaissance in France and Spain: Rabelais, Montaigne, Cervantes, and Lope de Vega. 3 s.h. (E) ASSISTANT PROFESSOR BRIDGERS

SPANISH

1-2. **Elementary Spanish.**—6 s.h. (W & E)
ASSISTANT PROFESSORS DAVIS, DOW, AND YOUNG; MRS. DILLINGHAM, AND MME. DOW

3-4. **Intermediate Spanish.**—Prerequisite: Spanish 1-2 or two years of high school Spanish. 6 s.h. (W & E)
PROFESSORS WEBB AND COWPER; ASSISTANT PROFESSORS DAVIS, DOW AND YOUNG; MRS. DILLINGHAM

65. **Introduction to Modern Spanish Literature.**—Prerequisite: Spanish 3-4 or equivalent. 3 s.h. (W & E)
ASSOCIATE PROFESSOR LUNDEBERG; ASSISTANT PROFESSORS BRIDGERS AND DAVIS

66. **Introduction to Spanish Literature of the Golden Age.**—Prerequisite: Spanish 65 or equivalent. 3 s.h. (W & E) ASSOCIATE PROFESSOR LUNDEBERG; ASSISTANT PROFESSOR DAVIS

68. Introduction to Spanish-American Literature.—Study of typical works in the field of the novel, chiefly of the modern period; lectures on literary, social, and cultural backgrounds and tendencies; collateral readings and reports. This course is offered as an alternate to Spanish 66 and will be accepted in fulfillment of major and graduation requirements. **3 s.h.** (E)
ASSISTANT PROFESSOR BRIDGERS

Spanish 65-68 are the basic prerequisites to all higher courses.

71. Elementary Conversation.—Prerequisite: completion of Spanish 4 or equivalent and approval of instructor. Normally this course should be taken concurrently with Spanish 65-66. (Enrollment limited to twenty students.) **1 s.h.** (E) MRS. DILLINGHAM

72. Elementary Conversation.—**1 s.h.** (E) MRS. DILLINGHAM

155. Survey of Spanish-American Literature.—Reading and discussion of representative texts illustrating the cultural development from Colonial times through Romanticism. Prerequisite: Spanish 65-66 or special permission. **3 s.h.** (E) ASSOCIATE PROFESSOR LUNDEBERG

156. Survey of Spanish-American Literature.—Reading and discussion of representative works in the field of the novel, drama, and poetry of the past century, including consideration of native types such as the *gaucho* and the *indio* together with brief introduction to the *modernista* movement. Prerequisite: Spanish 65-66 or special permission. **3 s.h.** (E)
ASSOCIATE PROFESSOR LUNDEBERG

157-158. The Modern Spanish Theater.—Prerequisites: Spanish 65-66 or special permission. **6 s.h.** (E)

171. Intermediate Conversation.—Emphasis will be laid on war Spanish. Prerequisite: Spanish 71-72 or equivalent. May be taken only concurrently with one of the 100 courses in Spanish. **1 s.h.** (E)
ASSOCIATE PROFESSOR LUNDEBERG

172. Intermediate Conversation.—**1 s.h.** (E)
ASSOCIATE PROFESSOR LUNDEBERG

253. Spanish Phonetics.—The sounds of the Spanish language; sound changes; exercises in transcription; regional pronunciation; intonation; limited use of electrical recording machines. Prerequisites: Spanish 65-66. (Enrollment limited to fifteen students.) **3 s.h.** (E) ASSOCIATE PROFESSOR LUNDEBERG

255-256. Studies in Spanish-American Literature.—The course will center about the development of national and continental consciousness in Spanish-American literary history from Colonial times to the present day, although special emphasis will be given to modern literature. Extensive individual investigations and reports with adequate training in bibliography. **6 s.h.**
[Not offered in 1944-45] ASSISTANT PROFESSOR REID

258. Landmarks of Medieval and Renaissance Literature.—The development of the national spirit as manifested in representative works of early Spanish literature, such as the *Cantar de Mio Cid*, the *Romancero*, and the *Celestina*, with some attention to the characteristics of the older language. **3 s.h.** ASSISTANT PROFESSOR DAVIS
[Not offered in 1944-45]

260. Advanced Syntax and Composition.—Systematic review of Spanish syntax; free oral and written composition; selected translation assignments; epistolary forms, etc. Conducted mainly in Spanish. Prerequisite: Spanish 65-66. (Enrollment limited to fifteen students.) **3 s.h.** (E)
ASSOCIATE PROFESSOR LUNDEBERG

261-262. **Modern Spanish Novel.**—The evolution of the novel from the *costumbrista* writers through the generation of 1898. Prerequisite: **6 s.h.** from courses 155 to 158 inclusive, or 65-66 with permission. **6 s.h.** (E)
ASSOCIATE PROFESSOR LUNDEBERG

265. **Golden Age Literature: Cervantes.**—The *Novelas ejemplares;* analytic study of the tales, their style, literary importance and influence. Prerequisite: **6 s.h.** from course 155 to 158 inclusive or 65-66 with permission. **3 s.h.** (E)
ASSOCIATE PROFESSOR LUNDEBERG
[Not offered in 1944-45]

266. **Golden Age Literature: The Don Juan Theme.**—Study of representative Don Juan plays of the Golden Age, with reference to use of this motif by later writers. Prerequisite: **6 s.h.** from courses 155 to 158 inclusive, or 65-66 with permission. **3 s.h.** (E)
ASSOCIATE PROFESSOR LUNDEBERG
[Not offered in 1944-45]

NAVY V-12 COURSES

Foreign Language 1-2 may be substituted for a first-year language.

Foreign Language 3-4 may be substituted for a second-year language.

Foreign Language 5, 6, and 7 may be substituted for third-year courses.

DEPARTMENTAL MAJOR

Prerequisites: French 1-2, 3-4, or equivalent, for French. Spanish 1-2, 3-4, or equivalent, for Spanish.

Major Requirements: In French, twenty-four semester hours of work must be completed in courses above the Freshman level, and must include: (a) six semester hours from the group 107, 127-128, 217; (b) six semester hours of literature in courses numbered 213 to 233.

In Spanish, twenty-four semester hours must be completed as follows: twelve semester hours in the courses 65-68, 155-156, 157-158; twelve semester hours from the group 253-266.

Students desiring the recommendation of the Department for the teaching of French will take, in addition, course 218.

DEPARTMENTAL HONORS PROGRAM

Prerequisites: Completion of 51-52 or 57-58 by the end of the Sophomore year in a manner satisfactory to the Departmental Committee.

Honors work in French includes:

(a) Training in the use of written and oral French; composition, résumé, and literary commentary in French. 3 s.h. each semester of Junior and Senior years, total 12 s.h.

(b) Readings in French literature.
  (1) Survey of chief authors. 3 s.h. each semester of 12 s.h.
  (2) Genre studies beginning with the modern novel. 3 s.h. each semester or 12 s.h.

(c) Comprehensive examination.

(d) Related work: 24 s.h.

SOCIOLOGY AND ANTHROPOLOGY

PROFESSOR ELLWOOD, CHAIRMAN; PROFESSOR JENSEN, DIRECTOR OF UNDERGRADUATE STUDIES; PROFESSOR HART; ASSOCIATE PROFESSORS GILLIN AND THOMPSON

91-92. General Sociology.—The same as course 101, except that it gives an additional hour of credit to permit the introduction of more concrete materials, and admits Sophomores with an average grade of not less than "C" during the Freshman year. **6 s.h.**
PROFESSOR JENSEN AND ASSOCIATE PROFESSOR GILLIN

101. General Sociology.—An introduction to the scientific study of social life; its origin, evolution, and organization as illustrated by the study of a number of concrete social problems. This course is repeated each semester and it, or its equivalent course 91-92 or course 131-132, is prerequisite to all other courses in sociology. **5 s.h.**
[Not offered in 1944-45]

102. General Sociology.—The same as course 101. 5 s.h.
[Not offered in 1944-45]

109. Sociology of the South.—A survey of the composition and distribution of population, races and race relations; economic conditions underlying population, race factors, and culture of the South. Primary emphasis is upon social change and its control. Prerequisite: course 91-92, 101 or 131-132. **3 s.h.** ASSOCIATE PROFESSOR THOMPSON

111. Introduction to Child Welfare.—A special course in child welfare for Juniors and Seniors. Prerequisite: course 91-92, 101 or 131-132. **3 s.h.**
PROFESSOR JENSEN

114. Race Relations.—Against the background of a preliminary study of interracial experiences in other parts of the world an effort is made to understand more clearly the racial situation in the Southern States. Prerequisite: course 91-92, 101 or 131-132. **3 s.h.** ASSOCIATE PROFESSOR THOMPSON

122. Personality and Culture.—Problems of college students in adjusting their personalities to the social institutions of which they are, or are to be, parts. Prerequisite: Sociology 91-92, 101 or 131-132. **3 s.h.** PROFESSOR HART

131. General Anthropology.—A survey of mankind and its cultural activities from the earliest times to the present day; fossil man and the development of the present species; modern races and varieties; first steps and later elaborations in tools and other material creations, language, family life and social organizations, political institutions, art, and religion. Special attention will be given to the simpler societies. **3 s.h.** ASSOCIATE PROFESSOR GILLIN

132. Cultural Anthropology.—A study of the dynamics of culture and its varieties, using materials from the simpler societies in various parts of the world; functions of culture, psychological aspects, the individual and culture, environmental aspects, cultural growth and change, acculturation; applications of these concepts to certain contemporary problems. Prerequisite: course 91-92, 101, or 131. **3 s.h.** ASSOCIATE PROFESSOR GILLIN

205. Social Pathology.—A study of the causes, extent, significance, and constructive treatment of the principal forms of pathology in modern society: poverty, physical defectiveness, malnutrition, mental deficiency, mental disease, undirected leisure activities and unstandardized commercial recreation, alcoholism, prostitution, vagrancy, and delinquency. Prerequisite: course 91-92, 101, or 131-132. **3 s.h.** PROFESSOR JENSEN

206. **Criminology.**—A study of the original tendencies of man and the problem of socializing these tendencies; the relations of physical and mental defectiveness and untoward influences in the home and neighborhood to crime; the development of criminological theory and procedure, emphasizing penal and reform methods, and especially modern methods of social treatment and prevention of crime. Prerequisite: course 91-92, 101, or 131-132. **3 s.h.**
PROFESOR JENSEN

212. **Child Welfare.**—A study of heredity and environment as factors in personality development; infant conservation; welfare responsibilities of the school, emphasizing the physical and mental well-being of the child, play, and compulsory and industrial education; child labor, diagnosis and treatment of delinquency; care of the dependent and neglected child; child-caring agencies, public and private; and a community program of child welfare. Prerequisite: course 91-92, 101, or 131-132. **3 s.h.** PROFESSOR JENSEN
[Offered in Summer Session, 1944]

213. **Constructive Social Policies.**—An intensive study of the theories and legislation dealing with such problems as compensation, vocational re-education, and other methods of social insurance and social improvement. Prerequisite: course 91-92, 101, or 131-132. **2 s.h.** PROFESSOR JENSEN
[Not offered in 1944-45]

215 **Rural Sociology.**—A study of the societies developed by people who settle the land and exploit it for a livelihood; patterns of settlement; culture; peasant, farmer, and folk societies; and rural institutions. Special attention is given to the plantation and to the rural problems of the South. Prerequisite: course 91-92, 101, or 131-132. **3 s.h.** ASSOCIATE PROFESSOR THOMPSON

216. **Urban Sociology.**—The city and civilization. This course studies the inner life and problems of the city and its function in the larger regional and world community which it nucleates. Prerequisite: course 91-92, 101, or 131-132. **3 s.h.** ASSOCIATE PROFESSOR THOMPSON

217. **Races and Culture.**—An analytical study of racial and cultural relations and problems of the Indian, the Negro and other minority groups in historical and contemporary situations. Prerequisite: course 91-92, 101, or 131-132. **3 s.h.** ASSOCIATE PROFESSOR THOMPSON

225. **Statistical Methods in Sociology.**—Deals with the processes of definition, classification, measurement, tabulation, association, correlation, comparison of averages and of percentages, causation, prediction, preparation and interpretation of charts and graphs, as applied to and illustrated by sociological data. Prerequisite: course 91-92, 101, or 131-132. **3 s.h.** PROFESSOR HART

227. **Emigration and Immigration.**—A study of territorial movements of population with special reference to Europe and America. Causes and extent of migration; its effect upon American and European society; origin and characteristics of immigrant groups and their organization in the New World; problems, agencies, and processes of assimilation. Prerequisite: course 91-92, 101, or 131-132. **3 s.h.** PROFESSOR JENSEN
[Not offered in 1944-45]

236. **Social Ethics.**—A study of the sociological fundamentals underlying social ethics, including the controversy between materialistic and idealistic social thinkers, the nature of personalities and of social organizations, the nature of social values, types of social interaction and their effects upon general social values, underlying principles and facts of social change, and the bearings of all these upon certain social problems. **3 s.h.**
PROFESSOR HART

237. Indians of North America.—Origin and early developments of aboriginal populations; development and distribution of tribes, their customs and languages; Indian influences on Euro-American culture; present status of the Indians; considerations of the culture-environment relationship in the light of comparisons between aboriginal and modern American life. Prerequisite: course 131. **3 s.h.** Associate Professor Gillin

[Not offered in 1944-45]

238. Anthropological Backgrounds of Latin America.—The aboriginal races and cultures of Latin America; origins, development; distribution and variations at the time of the Discovery; Iberian and African racial importations of the past four hundred years; the contemporary fusion and mixtures in such areas as Brazil, the Andean highlands, etc., and their relation to certain contemporary problems. Prerequisite: course 131. **3 s.h.**
Associate Professor Gillin

239. Acculturation and Cultural Synthesis.—The blending of customs and other problems arising from the contact of peoples. **3 s.h.**
Associate Professor Gillin

240. The Peoples of Africa.—A survey of the aboriginal peoples and cultures of Africa from the earliest times to the present day, with special attention to the areas of origin of the American Negro. Prerequisite: course 131. **3 s.h.** (w) Associate Professor Gillin

[Not offered in 1944-45]

242. Marriage and the Family.—An analysis of contemporary marriage and family experience with emphasis on its functions, problems, resources, and values. Sociology 91-92, 101, or 131-132. **3 s.h.** Professor Hart

251. Special Problems in Social Pathology.—Research projects in social and personal disorganization, limited to advanced students with the approval of the instructor. Prerequisite: course 205 or its equivalent. *Both semesters.* **1 to 3 s.h.** Professor Jensen

252. Education and Social Control.—A study of education as an agency of social progress from primitive times to the present. Prerequisite: course 91-92, 101 or 131-132. **2 s.h.**

[Not offered in 1944-45]

281. Public Opinion.—The fundamental problems and processes of social control and social change in democratically organized groups; the nature and development of public opinion, its cultural and psychological bases, the role of leadership, pressure groups, prestige, propaganda, censorship, advertising, the press, the motion picture, the radio, the graphic arts, etc., in its management and dissemination. **3 s.h.** Professor Jensen

[Not offered in 1944-45]

299. Marriage and Family Counseling.—A survey of practical problems in the light of social, psychological, and spiritual fundamentals, for persons preparing for professional work. Prerequisite: course 91-92, 101, or 131-132. **2 s.h.** Professor Hart

NAVY V-12 COURSES

S1. Sociology I.—Anthropology. **3 s.h.**

S2. Sociology II.—May be substituted for Sociology 91. **3 s.h.**

DEPARTMENTAL MAJOR

Students desiring to take a major in sociology are required to complete course 91-92 or 101 or 102 or 131-132 and twelve additional hours in the Department, at least six of which must be from courses numbered 200 or over.

ZOOLOGY

PROFESSOR GRAY, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR BOOKHOUT, SUPERVISOR OF FRESHMAN INSTRUCTION; ASSISTANT PROFESSOR JEFFERS, SUPERVISOR OF FRESHMAN INSTRUCTION (WOMAN'S COLLEGE); PROFESSORS HARGITT, PEARSE; ASSISTANT PROFESSOR JOHNSON; DRS. MAGALHAES AND WHARTON; AND ASSISTANTS

UNDERGRADUATE COURSES

1. **General Zoology.**—A brief survey of the animal kingdom. **4 s.h.** (E) ASSISTANT PROFESSOR JEFFERS; DRS. MAGALHAES, WHARTON; AND ASSISTANTS

2. **Animal Biology.**—The principles of biology as applied to animals. Prerequisite: Zoology 1. **4 s.h.** (E) ASSISTANT PROFESSOR JEFFERS; DR. MAGALHAES; AND ASSISTANTS

53. **Comparative Vertebrate Anatomy.**—A study of the anatomy and evolution of the organ systems of vertebrates. Prerequisites: Zoology 1 and 2. **4 s.h.** (E & W) PROFESSOR GRAY; DR. WHARTON; ASSISTANT PROFESSORS BOOKHOUT AND JOHNSON

92. **General Embryology.**—A study of the fundamental principles of embryology as illustrated in the frog, chick, and mammal. Prerequisite: Zoology 53. **4 s.h.** (W & E) ASSISTANT PROFESSOR JOHNSON

109. **Evolution.**—The facts and theories of organic evolution. Prerequisite: Two years of Zoology. **2 s.h.** (W) ASSISTANT PROFESSOR JOHNSON

110. **Introduction to Genetics.**—The principles and practical applications of genetics as applied to animals, including man. Prerequisite: One year of Zoology. **2 s.h.** (W) ASSISTANT PROFESSOR JOHNSON

151. **Comparative Physiology.**—The primary functions of animals of all groups and a more detailed study of the physiological processes in mammals. Prerequisite: Zoology 53. **4 s.h.** (W & E) DR. MAGALHAES

156. **Vertebrate Histology.**—The microscopic structure of normal tissues and organs of the vertebrate body. Training will be given in the preparation of material for microscopic study. Prerequisite: Zoology 53. **4 s.h.** (W & E) PROFESSOR HARGITT

161. **Animal Parasites.**—With emphasis upon those infesting man. Prerequisite: one year of Zoology. **4 s.h.** (W) PROFESSOR PEARSE

FOR SENIORS AND GRADUATES

204. **Advanced Parasitology.**—Lectures, conferences, readings, and laboratory work, dealing with practical and theoretical matters relating to animal parasites. Offered in alternate years. Prerequisite: Zoology 161. **4 s.h.** (W) PROFESSOR PEARSE

219-220. **Special Problems.**—Senior majors who have had proper training may be permitted to carry on special work. Permission must be obtained from the Director of Undergraduate Studies and the instructor under whom the student wishes to work. Not more than **4 s.h.** (W & E) STAFF

222. **Entomology.**—A study of anatomy, physiology, embryology, and classification of insects. Prerequisite: one year of Zoology. **4 s.h.** (W) PROFESSOR GRAY

224. Vertebrate Zoology.—A study of life histories, adaptations, ecology and classification of vertebrate animals. Prerequisite: Zoology 53. **4 s.h.** (E)
PROFESSOR GRAY

229. Endocrinology.—The structure, physiology, and embryology of the endocrine glands. Lectures, reading assignments, reports, and laboratory work. Prerequisites: Zoology 53 and 92. **4 s.h.** (W & E)
ASSISTANT PROFESSOR JEFFERS

256. Seminar: Current Developments in Physiological Zoology.—Prerequisite: Zoology 151. Open only to Seniors. **2 s.h.**

274. Invertebrate Zoology.—A study of structure, function, and habits of invertebrate animals under normal and experimental conditions. Field trips will be made to study, collect, and classify animals in their natural habitats. Offered in alternate years. Prerequisites: Zoology 1 and 2. **4 s.h.** (W)
ASSISTANT PROFESSOR BOOKHOUT

276. Protozoology.—The morphology, physiology, taxonomy, and culture of protozoa. Offered in alternate years. Prerequisites: Zoology 1 and 2. **4 s.h.** (W)
ASSISTANT PROFESSOR BOOKHOUT

RELATED COURSES, ONE OF WHICH MAY BE COUNTED TOWARD A MAJOR IN ZOOLOGY

Botany 101. Principles of Heredity.—3 or 4 s.h. (W)
ASSISTANT PROFESSOR PERRY

Botany 103. General Bacteriology.—4 s.h. (W & E) PROFESSOR WOLF

Botany 202. Genetics.—4 s.h. (W) ASSISTANT PROFESSOR PERRY

NAVY V-12 COURSES

***B1 and B2. Biology I and Biology II.**—Two lecture-recitation periods and two laboratory periods per week. **8 s.h.**

B3. Biology III. General Embryology.—May be substituted for Zoology 91. **5 s.h.**

B4. Biology IV. Comparative Anatomy.—May be substituted for Zoology 53. **5 s.h.**

DEPARTMENTAL MAJOR

Prerequisites: Zoology 1 and 2.

Major Requirements: Twenty-four semester hours including courses 53, 92, 151. The remaining twelve hours may be from any other courses for which the student is eligible.

DEPARTMENTAL HONORS PROGRAM

For admission to candidacy for Honors in zoology a student is expected to have completed zoology courses 1, 2, 53, 92 and not less than eight semester hours of chemistry.

Honors work consists of regular courses and independent study; the program, however, will not be the same for all students. Zoology 151 is required of all zoology majors; the number and nature of other courses to be taken in zoology and in related subjects will depend upon the needs and interests of the student. The usual number of semester courses will be four to six in zoology and six in other subjects in the Natural Science Group.

* B1 and B2 may be substituted for Botany 1-2 or Zoology 1-2.

In addition to regular courses each student shall read in such fields as history of biology and zoological theories, or in special fields, and shall undertake a special research problem under the direction of some member of the Staff whom the student may select. The student may be asked to prepare written reports on his readings and must present a written report on his research problem. Readings and problem count for nine to twelve semester hours.

At the end of the Junior year an examination will be given to test the student's ability to correlate material and to determine his fitness to continue in the Honors Group. At the end of Senior year a special comprehensive examination covering the entire field of study must be passed.

THE COLLEGE OF ENGINEERING

ADMISSION

Admission to the College of Engineering of Duke University is on a selective basis, dependent upon the ability, attainments, and character of the applicant. No student is admitted until the Council on Admissions has received for him a scholastic record from school or college, a certificate of vaccination and of good health, and satisfactory evidence of good character and ability. Prospective students and relatives are invited to visit the University and the College of Engineering in particular. This would be advantageous to the applicant since it would enable him to acquaint himself with the facilities of the University, and to discuss possible courses of study.

Certain days are announced in the University Calendar each year for the registration, classification, and sectioning of students. Those students who are admitted later than the dates announced must pay to the Treasurer $5.00 additional for the privilege of matriculating.

An applicant for admission to the Freshman Class in engineering must have completed at least fifteen units of preparatory work, partly in required and partly in elective subjects. A unit represents a year of work in a subject in an accredited secondary school, provided the work done in that subject is approximately one fourth of the annual amount of work regularly required in the school.

The subjects in which this credit may be offered and the maximum amount of credit acceptable in each subject are given in the following table:

	UNITS		UNITS
English	4	Botany	1
Latin	4	Zoology	1
Greek	3	General Biology	1
German	3	Physical Geography	1
French	3	General Science	1
Spanish	3	Agriculture	2
Mathematics	4	Mechanical Drawing	2
History and Civics	4	Woodwork, Forging, and Machine Work	2
Physics	1	Household Economics	2
Chemistry	1	Commercial Subjects	3

For a detailed explanation of the units in the table above, see the definitions as set forth by the Southern Association of Colleges and Secondary Schools and other regional associations.

ADMISSION BY CERTIFICATE

Applicants able to submit certificates of proficiency from accredited schools in subjects accepted for admission to the Freshman Class will be

admitted without examination. These certificates must be properly made out on the regular blanks furnished by the University, signed by the principal of the school from which the applicant comes, and presented before or at the opening of the academic year. The applicant must have completed the course of the school from which he comes.

At least nine and one half of the fifteen units required for admission must come from the following:

Required Units

English	3 units
A Foreign Language	2 units
*Science	1 unit
History	1 unit
†Algebra	1½ or 2 units
Plane Geometry	1 unit

Elective Units

In addition to the above required units, sufficient elective units must be offered to make a total of fifteen. It is recommended that these electives be chosen from the following list:

Algebra	½ unit
Solid Geometry	½ unit
Trigonometry	½ unit
‡German or French or Latin or Spanish or Greek	1 to 4 units
History or Civics (not the required unit)	1 to 3 units
Physics or Chemistry or Biology (not the required unit)	1 to 3 units

ADMISSION BY EXAMINATION

Students who present fifteen units for admission from schools not accredited by the University, and students who present the proper units but whose grades are not acceptable, are required to validate their units by entrance examinations in English and in mathematics and such other tests as the University may prescribe, including the test required by the North Carolina College Conference.

Students who have not the required units in English or in mathematics but who are otherwise acceptable must, before admission, clear this deficiency by entrance examinations.

ADMISSION TO ADVANCED STANDING

Students may be admitted to advanced standing from other approved institutions under the following conditions: all applicants must have fulfilled the equivalent of the requirements for admission to the Freshman

* Wherever possible, physics or chemistry should be offered for this requirement.
† Examination required to validate offering.
‡ One elective unit in any of the above languages will be accepted for admission provided the language requirement has been satisfied without it. As many as four units will be accepted in any one of these languages.

Class, must present official certificates of all work done in other institutions, and have honorable dismissal from the institutions they previously attended.

Applicants for advanced standing should present, so far as possible, subjects corresponding to those required at Duke University. Students admitted to advanced standing may not during their first semester elect more than the minimum number of hours required of the class which they enter except by permission of the Dean. Further, in addition to other requirements, a minimum of one full year in residence at Duke University with the satisfactory completion of at least thirty semester hours of work approved for Seniors, with an average grade of "C," is required of all candidates for the Bachelor's degree.

Students who have transferred from other colleges must, in order to make their provisional classification final, pass during their first year of residence not less than the equivalent of four year-courses with an average grade of "C" or higher.

The date for the registration and classification of students with advanced standing from other institutions is announced in the University Calendar. Students who are admitted later than this date are required to pay to the Treasurer $5.00 additional for the privilege of matriculating.

FRESHMAN WEEK

The week immediately preceding the opening of College is set aside for the induction of Freshmen. During this period health examinations, psychological tests, and placement tests are given in English and mathematics. Sectioning in these two subjects is based on the grades made on the placement tests. The Freshmen are divided into groups for instruction in the use of the Library, in the regulations of the student body, and in all matters pertaining to the adjustment of the individual to a new environment. Attendance upon these exercises is required of all Freshmen.

SPECIAL STUDENTS

Students of mature age not fully prepared to enter the Freshman Class may be admitted as special students and allowed to enroll for such work as they are prepared to carry. Further, they are required to take fifteen hours of classwork a week.

FEES AND EXPENSES

Information as to fees and expenses and room accommodations applicable to the College of Engineering is given, along with similar information for Trinity College and the Woman's College, on pages 173-178.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL, ELECTRICAL, OR MECHANICAL ENGINEERING

GENERAL STATEMENT

The studies for the degree of Bachelor of Science in Civil, Electrical, or Mechanical Engineering are designed for students who are preparing for civil, electrical, and mechanical or aeronautical engineering as a profession and lead to the following degrees: B.S. in C.E., B.S. in E.E., and B.S. in M.E. All curricula of the College of Engineering are fully accredited by the Engineers' Council for Professional Development, recognized accrediting agency in the field of engineering education.

Each of these degrees requires one hundred and thirty-eight semester hours of work of which one hundred and twenty must be completed with an average grade of "C." Six semester hours of electives must be taken in the Department of Economics or Political Science. If a foreign language is elected, it must be taken two years unless a student has sufficient entrance credits to enable him to pursue a more advanced course.

Prospective students should note that immediately after the final examinations in May or June a three-weeks course in surveying is given under the direction of the Summer Session. This course is required of all civil engineering students at the end of their Freshman year and is required of all other engineering students before graduation.

Courses described in the Navy V-12 Bulletin No. 101 may be offered in place of certain required courses outlined in this bulletin for the civil, electrical, and mechanical curricula.

GROUPS OF STUDIES FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL, ELECTRICAL, OR MECHANICAL ENGINEERING

GROUP I

CIVIL ENGINEERING

Freshman Year

FIRST SEMESTER	S.H.	SECOND SEMESTER	S.H.
Mathematics 9	5	Mathematics 10	5
Chemistry 1	4	Chemistry 2	4
English 1	3	English 2	3
Physics 17	3	Physics 18	3
Drawing G.E. 1	2	Drawing G.E. 2	2
Physical Education		Physical Education	
	17		17

Three weeks of Surveying S60 in summer. Credit 3 semester hours.

Sophomore Year

Mathematics 59	4	Mathematics 60	4
Physics 57	3	Physics 58	3
Economics 51	3	Economics 52	3
Statics G.E. 57	3	Kinetics G.E. 58	3
Surveying 61	2	Steam Engineering M.E. 55	2
Route Surveying 63	2	Route Surveying 64	2
Physical Education		Physical Education	
	17		17

Junior Year

Strength of Materials 107	3	Hydraulics 128	3
Structures 131	4	Structures 132	4
Highways 115	3	Materials 118	3
Electrical Engineering 153	3	Electrical Engineering 154	3
Elective	3	Elective	3
	16		16

Senior Year

Sanitary Engineering 123	4	Sanitary Engineering 124	3
Concrete 133	3	Concrete 134	3
Railroads 119	3	Astronomy-Navigation 112	3
Heat Power M.E. 103	3	Heat Power M. E. 104	3
Mechanical Engineering Lab. 115	1	Mech. Engg. Lab. 116	1
Elective	3	Civil Engineering Project 143	3
	17	Elective	2
			18

GROUP II

ELECTRICAL ENGINEERING

Freshman Year

FIRST SEMESTER	S.H.	SECOND SEMESTER	S.H.
Mathematics 9	5	Mathematics 10	5
Chemistry 1	4	Chemistry 2	4
English 1	3	English 2	3
Physics 17	3	Physics 18	3
Drawing 1	2	Drawing 2	2
Physical Education		Physical Education	
	17		17

Three weeks of Surveying S60 in summer. Credit 3 semester hours.

Sophomore Year

Mathematics 59	4	Mathematics 60	4
Physics 57	3	Physics 58	3
Statics 57	3	Kinetics-Mechanism 52	4
Electrical Engineering 51	3	Electrical Engineering 52	3
Economics 51	3	Economics 52	3
Steam Engineering 55	2	Physical Education	
Physical Education			17
	18		

Junior Year

Theory of D. C. Circuits 151	4	Theory of A. C. Circuits 152	3
Hydraulics 128	3	Strength of Materials 107-109	4
Electrical Circuits Lab. 161	1	Electrical Circuits Lab. 162	1
Heat Power Engineering 103	3	Heat Power Engineering 104	3
Differential Equations 131	3	Electrical Measurements 104	3
Mechanical Engineering Laboratory 115	1	Mechanical Engineering Laboratory 116	1
	15		15

Senior Year

A. C. Machinery 257	3	A. C. Machinery 258	3
Electric Power Trans. 159	3	Electric Power Stations 158	2
Communication 261	3	Communication 262	4
D. C. Machinery 155	2	Seminar 166	1
Electrical Machinery Laboratory 163	1	Electrical Machinery Laboratory 164	1
Seminar 165	1	Electives	6
Electives	6		17
	19		

In conformance with the wishes of the United States armed services, during wartime the curriculum in electrical engineering will emphasize particularly those aspects of theory and practice which are encountered principally in the field of electrical communications. During 1944-1945 the Senior curriculum has been modified to include intensive special classroom and laboratory training in radio, with particular reference to ultra-high frequency techniques.

GROUP III

Mechanical Engineering

Freshman Year

FIRST SEMESTER	S.H.	SECOND SEMESTER	S.H.
Mathematics 9	5	Mathematics 10	5
Chemistry 1	4	Chemistry 2	4
English 1	3	English 2	3
Physics 17	3	Physics 18	3
Drawing 1	2	Drawing 2	2
Physical Education		Physical Education	
	17		17

Three weeks of Surveying S60 in summer. Credit 3 semester hours.

Sophomore Year

Mathematics 59	4	Mathematics 60	4
Physics 57	3	Physics 58	3
Statics, G.E. 57	3	Kinetics-Mechanism 54	5
Const. Processes 51	3	Steam Engineering 55	2
Economics 51	3	Economics 52	3
Physical Education		Physical Education	
	16		17

Junior Year

Fluid Mechanics 105	3	Machine Design 150	3
Str. of Materials 107-109	4	Aeronautics 108	3
Electrical Engg. 153	3	Electrical Engg. 154	3
Thermodynamics 101	3	Thermodynamics 102	3
M.E. Lab. 113	1	M.E. Lab. 114	2
Elective	3	Elective	3
	17		17

Senior Year

Mechanical Option			
Machine Design 151	3	Industrial Engg. 158	3
Int. Comb. Eng. 155	3	Power Plants 162	3
Heating and Air Cond. 153	3	Refrigeration 154	3
M.E. Lab. 159	2	M.E. Lab. 160	2
Seminar 199	1	Seminar 200	1
Electives	5	Electives	5
	17		17

Senior Year

Aeronautics Option			
Machine Design 151	3	Industrial Engg. 158	3
Int. Comb. Eng. 155	3	Airplane Design 172	3
Airplane Design 171	3	Airplane Engines 156	3
Aerodynamics 173	2	Aerodynamics 174	2
M.E. Lab. 159	2	Aeronautics Lab. 176	2
Seminar 199	1	Seminar 200	1
Elective	3	Elective	3
	17		17

Note: The Aeronautics Option for Senior Mechanical Engineering students will not be offered while the Navy College Training Program is in operation.

COURSES OF INSTRUCTION, COLLEGE OF ENGINEERING

PROFESSOR HALL, DEAN; PROFESSOR BIRD, CHAIRMAN CIVIL ENGINEERING; PROFESSOR SEELEY, CHAIRMAN ELECTRICAL ENGINEERING; PROFESSOR WILBUR, CHAIRMAN MECHANICAL ENGINEERING; ASSISTANT PROFESSORS LOUISE HALL, HINTON, JACOBS, LEWIS, MEIER, AND REED; MESSRS. BAKER, COOKE, HACKNEY, HAINES, JONES, KRAYBILL, OGLESBY, PATTINSON, THEISS, VAIL, AND WILLIAMS

GENERAL ENGINEERING

1-2. Engineering Drawing.—The study of mechanical drawing with emphasis on drawing parts, elementary machines, dimensioning, and working drawings; pencil and ink technique; elementary drawing board geometry, including point line and plane relations, and elementary work in developments and intersections. **4 s.h.** (E) STAFF

5. Descriptive Geometry.—The study of drawing board problems involving point, line, and plane relationships; development of solids; intersections of solids and concurrent non-coplanar forces, with emphasis on practical applications. **2 s.h.** (E) STAFF

51-52. Technical Drawing.—For liberal arts students in training for war service, either military or civil. Elementary principles of machine, structural, and topographic drawing. Nine laboratory hours. **6 s.h.** (E)
ASSISTANT PROFESSOR L. HALL

57. Statics.—Concurrent forces, parallel forces, nonconcurrent and non-parallel forces, centroids, friction, moment of inertia. Prerequisites: courses G.E. 1-2, Mathematics 9 and 10. **3 s.h.** (E) STAFF

58. Kinetics.—Translation, rotation, work, energy, and momentum. Prerequisite: courses G.E. 57, and Mathematics 59. **3 s.h.** (E) STAFF

107. Strength of Materials.—Elastic bodies under stress; flexture of simple, overhanging, fixed, and continuous beams; columns; combined stresses, etc. For Civil Engineering students, the laboratory work is included in course 118. Other students should take course G.E. 109 for laboratory. Prerequisite: course 57. **3 s.h.** (E) STAFF

109. Strength of Materials Laboratory.—Concurrent with course G.E. 107. **1 s.h.** (E) Either semester. STAFF

128. Hydraulics.—Hydrostatics; flow of water through orifices, weirs, pipes, and open channels; general principles of water wheels and turbines. Prerequisite: course 57. **3 s.h.** (E) Either semester. STAFF

151-152. Elements of Cartography.—For liberal arts students in training for war service, either military or civil. Development and uses of maps and charts; scales, symbols, contours, and profiles; construction of projections; field and office computations, and control plotting; sources for compilation, and the applications of aerial photography; preliminary and final drafting, and reproduction. One-hour class and six laboratory hours. **6 s.h.** (E)
ASSISTANT PROFESSOR L. HALL

CIVIL ENGINEERING

PROFESSORS BIRD AND HALL; ASSISTANT PROFESSORS JACOBS; MR. WILLIAMS

S60. Plane Surveying.—Use of instruments; transit, stadia, compass and plane table surveying; simple triangulation; determination of meridian by observation on Polaris; differential and profile leveling; setting grade stakes; calculation of bearings, latitudes, and departures; areas by planimeter; methods of plotting, survey and plot of sections of the campus by stadia, and transit and tape. Eight hours a day, three weeks, Summer Session. Prerequisite: G.E. 1 and trigonometry. **3 s.h.** (E) STAFF

61. Higher Surveying.—Care and adjustment of instruments; topographical surveying; surveys and resurveys; laying out and division of land; public land system; further calculations, omitted measurements, areas by double longitude; quantities from profiles and cross sections. Prerequisite: course S60. **2 s.h.** (E) MR. WILLIAMS

63-64. Route Surveying.—Thorough drill in the calculation and laying out of simple, compound, and easement curves, widening of curves, vertical curves, setting slope stakes, ordinary earthwork computations, and mass diagrams. Prerequisite: course S60. **4 s.h.** (E) STAFF

70. Civil Engineering Drawing.—Elements of topographical and structural drafting. Two three-hour drawing periods. Prerequisite: course G.E. 1-2. **2 s.h.** (E) PROFESSOR BIRD

112. Practical Astronomy and Navigation.—Determination of time, longitude, latitude, and azimuth. Pilotage, dead reckoning, celestial navigation. Observations and calculations. Prerequisite: S60 or with the consent of the instructor. **3 s.h.** (E) PROFESSOR BIRD

115. Highway Engineering.—Location, construction, and maintenance of roads and pavements; dust prevention; road economics. **3 s.h.** (E) PROFESSOR HALL

118. Materials of Engineering.—Study and testing of materials commonly used in engineering. Prerequisite: course G.E. 107 or concurrent. **3 s.h.** (E) MR. WILLIAMS

119. Railroad Engineering.—Differences between highway and railway practice affecting curves and earthwork. Frogs, switches, and crossings. Preliminary and location survey of a railway of sufficient length to secure familiarity with methods of actual practice. Paper location with estimate of cost. Prerequisite: course 63-64. **3 s.h.** (E) PROFESSOR BIRD

120. Railroad Engineering.—Construction and maintenance of track and trackwork, economics, and operating conditions affecting location. Prerequisite: course 63-64. **2 s.h.** (E) PROFESSOR BIRD

123-124. Sanitary Engineering.—

(a) Hydrology.—Factors affecting precipitation; evaporation from land and water surfaces; relation of precipitation to run-off; estimating run-off; floods and flood flows. Stream gauging.

(b) Public Water Supply.—Quantity and quality of water required, hydraulics of wells, reservoirs, works for purification and distribution of water. Standard laboratory tests for chemical and bacteriological examination of water.

(c) Sewerage.—Sewerage systems, rainfall and storm water flow, sizes of storm and sanitary sewers, sewage disposal. Standard laboratory tests of sewage. Prerequisite: course G.E. 128. **7 s.h.** (E) PROFESSOR HALL

131. **Steel Structures—Stresses.**—Roofs, parallel chord bridges under all types of loads, inclined top chord bridges, including subdivided panels, wind bracing. Prerequisite: course G.E. 57. **4 s.h.** (E) PROFESSOR BIRD

132. **Steel Structures—Design.**—Built beams, plate girders, tension members, compression members, tension and compression members, end posts, stringers, floor beams, pins, plates, etc. Drafting. Prerequisites: courses G.E. 107 and 131. **4 s.h.** (E) PROFESSOR BIRD

133. **Reinforced Concrete.**—Theory and design of reinforced concrete beams, slabs, columns. Prerequisite: course G.E. 107. **3 s.h.** (E) PROFESSOR BIRD

134. **Advanced Reinforced Concrete.**—Retaining walls, foundations, buildings, rigid frames. Prerequisites: courses 133 and 135. **3 s.h.** (E) PROFESSOR BIRD

135. **Soils and Foundations.**—Fundamental relations and soil classification, Atterberg limits, capillary phenomena and permeability of soils, soil stabilization. Different behavior of granular and plastic soils affecting the foundations of structures, earth pressure against retaining walls. Prerequisite: course G.E. 107. **3 s.h.** (E) ASSISTANT PROFESSOR JACOBS

137-138. **Seminar.**—Students are required to make reports and to talk on current engineering literature or on such other topics as may be assigned. **2 s.h.** (E) STAFF

143-144. **Projects in Civil Engineering.**—This course may be assigned by the Chairman of the Department to certain Seniors who have shown an aptitude for research in one distinct field of civil engineering, in which case it may be substituted for certain general civil engineering courses. **3-6 s.h.** (E) Either semester. STAFF

240. **Indeterminate Structures.**—Introductory course dealing with the application of theory of least work, deflection, and rotation to indeterminate stresses. Problems are solved analytically, graphically, and by deformeter. Prerequisites: course 131 and ability to read French or German. **3 s.h.** (E) PROFESSOR BIRD

ELECTRICAL ENGINEERING

PROFESSOR SEELEY; ASSISTANT PROFESSOR MEIER; MESSRS. KRAYBILL AND VAIL

51-52. **Survey of Electrical Engineering.**—A general survey course covering the entire field of electrical engineering, intended to give the electrical engineering student a general preview of the subject as a whole. Required of Sophomores. Prerequisites: Freshman mathematics and concurrent physics. **6 s.h.** (E) ASSISTANT PROFESSOR MEIER

151. **Theory of Direct Current Circuits.**—A course consisting of lectures and recitations covering the fundamental theory of direct current circuits, and electric and magnetic fields. Prerequisites: course 51-52, Physics 57-58, Mathematics 59, 60. Mathematics 131 should be taken concurrently. **4 s.h.** (E) MR. VAIL

152. **Theory of Alternating Current Circuits.**—A course covering the algebra of vectors and complex quantities, nonsinusoidal waves, polyphase circuits, harmonics, and unbalanced three-phase circuits. Two-hour class, two-hour computation. Prerequisites: course 151, Mathematics 131. **3 s.h.** (E)
MR. VAIL

153-154. **Principles of Electrical Engineering.**—An elementary course consisting of lectures, recitations, and laboratory covering the principles of direct and alternating current circuits, machinery, and their applications, designed especially for students in civil and mechanical engineering. This course includes one three-hour period in the electrical machinery laboratory per week. Prerequisite: Physics 57-58. **6 s.h.** (E) MESSRS. KRAYBILL AND VAIL

155. **Direct Current Machinery.**—A study of the principles which underlie the design and operation of all types of direct current machinery. Prerequisites: courses 151, 161-162. **2 s.h.** (E) ASSISTANT PROFESSOR MEIER

156. **Electric Transportation.**—Construction, operation, and uses of electric equipment in air, land, and sea transportation. Elective. Prerequisites: courses 151, 152, 161-162, or 153-154. **3 s.h.** (E) MR. KRAYBILL

157. **Industrial Applications of Electrical Equipment.**—A course of lectures, demonstrations, and recitations dealing with the basic principles of the utilization of a wide variety of electrical equipment in industrial practice. Industrial control and motor applications with a short review of motor performance. Electronic equipment and applications. Elective. Prerequisite: course 153-154. **3 s.h.** (E) ASSISTANT PROFESSOR MEIER
[Not offered in 1944-45]

158. **Electric-Power Stations.**—A course of lectures and recitations pertaining to the design, construction, and operation of electric power stations, both steam and hydraulic. Consideration of prime movers; generating machinery; switchboards; instruments, relays, and protective devices; operation and management; visits to neighboring plants. Prerequisites: courses 151, 152, and M.E. 103-104. **2 s.h.** (E) MR. VAIL

159. **Electric-Power Transmission.**—A course of lectures and recitations on the factors involved in the transmission of electrical energy over long distances and the use of hyperbolic functions in the solution of transmission line problems. Two-hour class, two-hour computation. Prerequisites: courses 151, 152. **3 s.h.** (E) PROFESSOR SEELEY

161-162. **Electrical Circuits Laboratory.**—This course provides experimental verification of the theory developed in courses 151 and 152, and should be taken concurrently. Three hours per week. **2 s.h.** (E) MR. VAIL

163-164. **Electrical Machinery Laboratory.**—A study of the technique of testing electrical machines and a thorough analysis of their performance. Concurrent with courses 155, 258. **2 s.h.** (E) ASSISTANT PROFESSOR MEIER

165-166. **Electrical Engineering Seminar.**—Seniors are required to present reports and dissertations on material appearing in current engineering literature. Juniors may participate, but without credit. **2 s.h.** (E) MR. VAIL AND STAFF

173-174. **Projects in Electrical Engineering.**—Project work may be undertaken only by those who show special aptitude, or who have had previous experience on some problem. The consent of the Chairman of the Department must be obtained before registering. Seniors only, elective credit. **3-6 s.h.** (E)
PROFESSOR SEELEY AND STAFF

202. **Fundamentals of Radio.**—An elementary course covering the principles underlying radio communication, including vacuum tubes, vacuum-tube circuits, oscillating circuits, antennae, radiation, transmission, and reception. Designed especially for civil and mechanical engineering students. Prerequisite: course 153-154. **3 s.h.** (E) MR. KRAYBILL

257-258. **Alternating Current Machinery.**—A course covering the theory underlying the design, construction, and operation of synchronous generators, transformers, polyphase induction and synchronous motors, single-phase motors of all types, converters and rectifiers. Prerequisites: courses 152, 155. **6 s.h.** (E) ASSISTANT PROFESSOR MEIER

261. **Communication Engineering, Audio Frequency.**—An advanced course on the principles underlying voice-frequency communication covering nature of speech and sound, wave propagation over metallic circuits, filters; resistance, inductance, capacitance at audio frequencies; transmission characteristics of communication equipment. Two-hour class, three-hour laboratory. Prerequisites: courses 151, 152, Mathematics 131. **3 s.h.** (E) PROFESSOR SEELEY, MR. KRAYBILL

262. **Communication Engineering, Radio Frequency.**—An advanced course on the principles underlying radio communication, covering vacuum tubes, vacuum-tube circuits, oscillating and coupled circuits, antennae, radiation, transmission, reception, and ultra-high frequency techniques. Three-hour class, three-hour laboratory. Prerequisite: course 261. **4 s.h.** (E) PROFESSOR SEELEY, MR. KRAYBILL

263-264. **Mathematical Analysis of Electrical Circuits.**—An advanced course on the detailed mathematical analysis of certain circuits used in electrical engineering, with an introduction to the use of operational calculus as applied to electrical circuits. Elective. Prerequisites: courses 151, 152 and Mathematics 131. **6 s.h.** (E) PROFESSOR SEELEY

MECHANICAL ENGINEERING

PROFESSOR WILBUR; ASSISTANT PROFESSORS HINTON, LEWIS, AND REED; MESSRS. COOKE, PATTINSON, AND THEISS

51. **Constructive Processes.**—Recitation course covering fundamentals of metallurgy and general processes of casting, forging, and machining. Demonstrations of basic machining operations are made. Prerequisite: Chemistry 2. **3 s.h.** MESSRS. COOKE, PATTINSON, AND THEISS

52. **Kinetics-Mechanism.**—For E. E. students. Motions of particles. Applications of Newton's Laws of Motion to motions of rigid bodies. Work, energy, impulse, and momentum. Linkages, cams, gears, trains of mechanism. Three recitations, three laboratory hours. Prerequisites: G.E. 2, G.E. 57, Mathematics 59. Mathematics 60 concurrently. **4 s.h.** (E) ASSISTANT PROFESSORS HINTON, REED, AND MESSRS. PATTINSON AND THEISS

54. **Kinetics-Mechanism.**—For M. E. students. Motions of particles. Applications of Newton's Laws of Motion to motions of rigid bodies; principles of work, energy, impulse, and momentum. Linkages, belts, ropes, chains, cams, gears, trains of mechanism. Three recitation hours, six laboratory hours. Prerequisites: G.E. 2, G.E. 57, and Mathematics 59. Mathematics 60 concurrently. **5 s.h.** (E) ASSISTANT PROFESSORS HINTON, REED, AND MESSRS. PATTINSON AND THEISS

55. **Steam Engineering.**—Elementary principles of boilers, engines, turbines, and auxiliaries; properties of steam; fuels and combustion. Prerequisite: Physics 18. **2 s.h.** (E) PROFESSOR WILBUR, MESSRS. COOKE AND PATTINSON

101-102. Engineering Thermodynamics.—A study of thermodynamic properties and processes of gases, vapor and gas-vapor mixtures; cycles; efficiencies and performance of steam power plant equipment. Three recitations. Prerequisites: M.E. 55, Physics 58, and Math. 60. **6 s.h.** (E)
PROFESSOR WILBUR AND ASSISTANT PROFESSOR HINTON

103-104. Heat Power Engineering.—A short course in engineering thermodynamics combined with applications to power plant design. For civil and electrical engineering students. Prerequisites: Mathematics 60, M.E. 55. **6 s.h.** (E)
ASSISTANT PROFESSOR REED

105. Fluid Mechanics.—Fluid statics; kinematics of fluid flow; application of fluid dynamics theory to flow through orifices, weirs, and pipes; general principles of centrifugal pumps and turbines. Prerequisite: M.E. 54. **3 s.h.** (E)
PROFESSOR WILBUR AND ASSISTANT PROFESSOR HINTON

108. Aeronautics.—A general course applying fluid mechanics principles to airfoils, propellers, and the complete airplane. Prerequisite: M.E. 105. **3 s.h.** (E)
MESSRS. PATTINSON AND THEISS

113-114. Junior Mechanical Engineering Laboratory.—Open only to mechanical engineering students. First semester, three laboratory hours, devoted to experiments and reports in hydraulics, flue gas analyses, calorific value of fuels. Second semester, six laboratory hours, dovoted to experiments and reports related to thermodynamics, such as boiler inspection, air compression, injectors, steam and fuel calorimetry. Prerequisite: M.E. 55. M.E. 101-102 concurrently. **3 s.h.** (E)
ASSISTANT PROFESSOR HINTON, MESSRS. COOKE, PATTINSON, AND THEISS

115-116. Junior Mechanical Engineering Laboratory.—For C. E. and E. E. students who are taking M.E. 103-104. Experiments and reports on measuring instruments and apparatus, flow of air, steam and water, economy of boilers, steam and internal combustion engines. Three laboratory hours. **2 s.h.** (E)
ASSISTANT PROFESSOR HINTON AND MR. PATTINSON

150-151. Machine Design.—Application of principles of strength of materials, constructive processes, and engineering drawing to design of riveted and welded connections, pressure vessels, and machine elements, followed by design of at least one complete machine. Two recitations, three laboratory hours. Prerequisites: G.E. 107, M.E. 51, M.E. 54. **6 s.h.** (E)
ASSISTANT PROFESSORS HINTON AND REED

153. Heating and Air Conditioning.—Fundamentals of heating and air conditioning, determination of heat losses and gains, design of steam, hot water and warm air heating and air conditioning systems for homes, offices and industrial buildings. Prerequisites: M.E. 102 or M.E. 104. M.E. 159 concurrently. **3 s.h.** (E)
ASSISTANT PROFESSOR REED AND MR. COOKE

154. Refrigeration Engineering.—Fundamentals of refrigeration theory and design, with applications in industry. Prerequisites: M.E. 102 or M.E. 104, M.E. 160 concurrently. **3 s.h.** (E)
ASSISTANT PROFESSOR REED

155. Internal Combustion Engines.—Principle cycles; fuels and fuel mixtures; effect of real mixtures on theoretical cycles; combustion; carburetion and fuel injection. Thermodynamic analysis of engine performance. Modern developments in the internal combustion engine. Three recitations. Prerequisite: M.E. 101-102. **3 s.h.** (E)
ASSISTANT PROFESSOR HINTON

156. Airplane Engines.—A study of the qualities desirable in an airplane engine and design calculations. These calculations include such items as indicator card, inertia and gas loads, crankshaft vibration, and fin area required for proper cooling. Three recitations. Prerequisite: M.E. 155. **3 s.h.** (E)
MR. ————

158. Industrial Engineering.—A study of the industrial growth and present tendencies of productive industries as concerns the engineer. Specific topics treated are: plant location; organization; production and cost controls, wage payment, etc. Seniors only. Three recitations. **3 s.h.** (E) MR. THEISS

159. Senior Mechanical Engineering Laboratory.—Tests and reports on performance and economy of internal combustion engines, steam engines and turbines; heat transfer, radiator tests, and heat balances. Required of all Seniors in mechanical engineering. Six laboratory hours. Prerequisite: M.E. 114. M.E. 153 concurrently. **2 s.h.** (E)
ASSISTANT PROFESSOR HINTON, MESSRS. COOKE AND THEISS

160. Senior Mechanical Engineering Laboratory.—Required of all Mechanical Option Seniors. Tests and reports on boiler, engine, turbine, condenser and accessories; heat transfer; refrigeration equipment. Six laboratory hours. Prerequisite: M.E. 159. M.E. 154, 162 concurrently. **2 s.h.** (E)
ASSISTANT PROFESSOR HINTON, MESSRS. COOKE AND THEISS

162. Power Plant Calculations.—Study of economic and engineering factors in developing steam power plants. Consideration of the performance of boilers, prime movers, condensers and various auxiliaries in various groupings as they affect the plant heat balance. Three recitations. Prerequisites: M.E. 101-102 or 103-104. **3 s.h.** (E) PROFESSOR WILBUR

171-172. Airplane Design.—The design of an airplane to accomplish a specific purpose, this design to include three-view drawing, determination of air and inertia loads, and stress analysis as proof of structure. All work must be in a form acceptable to the Civil Aeronautics Board. Three laboratory periods. Prerequisites: M.E. 150, M.E. 108. M.E. 151 concurrently. **6 s.h.** (E)
MR. ————

173-174. Aerodynamics.—A review of the physics of air leading into a study of airflow around aerodynamical shapes, this study progressing into an analysis of air forces that terminates in performance estimation. Two recitations. Prerequisites: M.E. 105, M.E. 108. **4 s.h.** (E) MR. ————

176. Aeronautics Laboratory.—This course includes performance tests on airplane engines, installation problems and operational characteristics of aircraft instruments, and tests of aerodynamical shapes in the wind tunnel. Two laboratory periods. M.E. 174 concurrently. **2 s.h.** (E) MR. ————

197-198. Projects in Mechanical Engineering.—This course may be assigned by the Chairman of the Department to certain Seniors who express a desire for such work and who have shown aptitude for research in one distinct field of mechanical engineering. Elective credit either semester. **3-6 s.h.** (E)
PROFESSOR WILBUR AND STAFF

199-200. Seminar.—Students are required to make reports and to talk on current engineering literature or on such topics as may be assigned. **2 s.h.** (E)
STAFF

NAVY V-12 COURSES

Navy V-12 courses may be substituted for College of Engineering courses as indicated below:

COLLEGE OF ENGINEERING	N V-12
G.E. 1-2. Engineering Drawing.	N D1. Engineering Drawing. N D2. Descriptive Geometry.
G.E. 57. Statics.	N A1. Analytical Mechanics-Statics.
G.E. 58. Kinetics.	N A2. Analytical Mechanics-Dynamics.
G.E. 107. Strength of Materials.	N CE3. Strength of Materials.
G.E. 109. Strength of Materials Lab.	N CE4a. Strength of Materials Lab.
G.E. 128. Hydraulics.	N CE6. Fluid Mechanics.
C.E. S60. Plane Surveying.	N CE1. Plane Surveying.
C.E. 63-64. Route Surveying.	N CE10. Curves and Earthwork.
C.E. 112. Practical Astronomy and Navigation.	N Math. M8. Elementary Navigation and Nautical Astronomy.
C.E. 115. Highway Engineering.	N CE17. Highway Engineering.
C.E. 118. Materials of Engineering.	N CE4. Strength of Materials Lab. I.
C.E. 123-124. Sanitary Engineering. (b) Public Water Supply. (c) Sewerage.	N CE14. Water Supply. N CE13. Sanitary Engineering.
C.E. 131. Steel Structures—Stresses.	N CE7. Structures I.—Structural Analysis.
C.E. 132. Steel Structures—Design.	N CE9.+ Structures III.—Elementary Structural Design in Steel and Wood.
C.E. 133. Reinforced Concrete.	N CE8. Structures II.—Theory of Reinforced Concrete.
C.E. 134. Advanced Reinforced Concrete.	N CE11.– Structures IV.—Concrete Structures and Foundations.
C.E. 135. Soils and Foundations.	N CE15. Soil Mechanics.
E.E. 51-52. Survey of Electrical Engineering.	N EE1. Electricity and Magnetism
E.E. 151. Theory of Direct Current Circuits.	N EE3. Electric and Magnetic Circuits I.
E.E. 152. Theory of Alternating Current Circuits.	N EE4. Electric and Magnetic Circuits II.
E.E. 153-154. Principles of Electrical Engineering.	N EE10, 11. Electrical Engineering I— Direct-Current Apparatus and Circuits. Electrical Engineering II— Alternating-Current Apparatus and Circuits.
E.E. 155. Direct Current Machinery.	N EE12a. Direct-Current Machinery and Storage Batteries.
E.E. 161-162. Electrical Circuits Lab.	N EE3-4. Electric and Magnetic Circuits I and II.
E.E. 163-164. Electrical Machinery Lab.	N EE15. Electrical Engineering Lab.
E.E. 202. Fundamentals of Radio.	N EE(5a-6a). Electron Tubes and Circuits Ia and IIa.
E.E. 257-258. Alternating Current Machinery.	N EE13a. Alternating-Current Machinery Ia.

E.E. 261. Communication Engineering, Audio Frequency.	N EE7. High-Frequency Circuits I.
E.E. 262. Communication Engineering, Radio Frequency.	N EE8. High-Frequency Circuits II.
M.E. 51. Constructive Processes.	N ME. Mechanical Processes.
M.E. 52. Kinetics-Mechanism.	N A1. Analytical Mechanics I—Statics. N ME1. Kinematics.
M.E. 54. Kinetics-Mechanism.	N A1. Analytical Mechanics I—Statics. N ME1. Kinematics.
M.E. 55. Steam Engineering.	N ME2. Elementary Heat Power.
M.E. 101-102. Engineering Thermodynamics.	N ME4. Thermodynamics I.
M.E. 103-104. Heat Power Engineering.	N ME4a. Thermodynamics Ia. N ME3a. Heat Power Ia.
M.E. 105. Fluid Mechanics.	N CE6. Fluid Mechanics.
M.E. 108. Aeronautics.	N ME14. Aerodynamics.
M.E. 113-114. Junior Mechanical Engineering Laboratory	N CE6. Fluid Mechanics.
M.E. 115-116. Junior Mechanical Engineering Laboratory.	N ME3a. Heat Power Ia.
M.E. 150-151. Machine Design.	N ME15, 16. Mechanical Design I, II.
M.E. 154. Refrigeration Engineering.	N ME13. Refrigeration.
M.E. 155. Internal Combustion Engines.	N ME11. Heat Power II—Internal-Combustion Engines.
M.E. 158. Industrial Engineering.	N GE3. Industrial Organization.
M.E. 159. Senior Mechanical Engineering Laboratory.	N ME10. Naval Machinery.
M.E. 160. Senior Mechanical Engineering Laboratory.	N ME11. Heat Power II—Internal-Combustion Engines.
M.E. 162. Power Plant Calculations.	N ME12. Heat Power III—Steam Power. N ME10. Naval Machinery.

GENERAL REGULATIONS

TRINITY COLLEGE, WOMAN'S COLLEGE, AND COLLEGE OF ENGINEERING

Under the accelerated wartime program and in keeping with the Navy schedule, Trinity College and the College of Engineering will be operated on semesters of sixteen weeks each, the first semester beginning on or about July 1, the second semester on or about November 1, and the third semester on or about March 1.

The Woman's College will operate as in the past on a two-semester basis, the fall semester opening in the middle of September.

It is important that all students be present on the first day of the session, for those who are late incur the penalties described in this catalogue under the topic "Admission to College" and below under the sub-topic "Course Cards." Students who enter after the beginning of the semester are marked absent in the work they have missed in the courses to which they are admitted, and these absences carry the same penalty as do other absences from the courses.

MATRICULATION, REGISTRATION, AND ENROLLMENT

All students must appear before the Committee on Admission and obtain cards for admission. Cards of admission must be presented at the Treasurer's Office at the time of matriculation. All students, both old and new, are required to matriculate at the beginning of each semester and to obtain from the Treasurer a certificate of matriculation which serves also as an enrollment card. Students matriculating in either semester at a date later than that prescribed in this catalogue shall pay to the Treasurer a penalty of $5.00 for late registration. Students whose course cards have been approved in the spring in the manner provided below are given an opportunity during the summer to matriculate by mail for the first semester. No student without a matriculation card is admitted to any class.

COURSE CARDS

Members of the Freshman, Sophomore, and Junior classes are required to submit to the Dean, not later than the date of spring registration, cards showing their selection of courses for the following year. These cards must be approved by the Dean. After being approved, the cards must be filed for permanent record in the Dean's Office. Students in the Freshman, Sophomore, and Junior classes who do not select their courses for the following year at the time appointed must pay a fee of $5.00 to the Treasurer of the University before their course cards may be approved in the fall. The same regulations apply for the second semester. Students whose course cards have been approved but who, for reasons

not arising within the University, desire to make a change in the card approved are required to pay to the Treasurer a fee of $1.00 for each change made. No course may be elected later than two weeks after the opening of the semester.

If a student drops a course without permission from the Dean of the College, the grade for that course shall be recorded as "F."

If a student drops with permission a course in which he is failing at that time, the grade for that course shall be recorded as "F" unless in the judgment of the Dean, circumstances do not justify this penalty.

EXAMINATIONS

Midyear and final examinations are held in all subjects in January and May, respectively. The examination record combined with the record made in class constitutes the student's final grade.

REGULATIONS REGARDING GRADES

The following regulations have been adopted by the Faculty:

Grades shall be reported so as to indicate one of four things:

(1) *Passed.* A grade of "A," "B," "C," or "D" shall indicate that a student has passed a course. The work of this group of students shall be graded according to the following system: "A": exceptional; "B": superior; "C": medium; "D": inferior.

(2) *Failed.* A grade of "F" shall indicate that the student has failed in the course and that in order to receive credit for the course he shall be obliged to take the work again in class.

(3) *Incomplete.* (a) A grade of "I" may be reported by the instructor if for any reason he is unable to report the final grade at the regular time. (b) All students with incomplete grades who have not satisfied the requirements of the departments concerned and who have not obtained a passing grade before the close of the semester following the date of the regular examination in which the "I" was incurred are regarded as having failed on the course concerned and must repeat the work in class in order to receive credit.

(4) *Absent from Final Examination.* (a) The grade "X" shall indicate that the student was absent from the final examination. (b) A student absent from examination and marked "X," if his absence has been excused by the Dean of the College, may receive an examination on the payment of a fee of $3.00 to the Treasurer of the University. The department concerned shall arrange for the examination in cases where absences are incurred and excused, and the grade reported in these cases shall be that earned by the student. (c) All students (with "X" grades) who have not satisfied the requirements of the department concerned and who have not obtained a passing grade before the close of the semester following the date of the regular examination in which the "X" was incurred, are regarded as having failed on the course concerned and must repeat the work in class in order to receive credit. (d) If a student's

absence from an examination is not excused by the Dean of the College, his grade for the course concerned shall be recorded as "F."

EXPLANATION OF QUALITY-POINT SYSTEM

The requirements for the degree are reckoned not only in semester hours but also in quality points. Quality points are the points earned by a student according to his grades, for each semester hour of credit. The grade "A" gives three quality points for each semester hour of credit; the grade "B," two quality points; the grade "C," one quality point. The grade "D" carries no credit in quality points. For the grade "F" one quality point is deducted for each semester hour of failure. Credit for 120 quality points, exclusive of those earned in physical education, is required for the degree of Bachelor of Arts or Bachelor of Science in all groups.

NUMBER OF HOURS OF CLASSWORK

Without special permission of the Dean, no undergraduate student is allowed to take less than fourteen semester hours of classwork a week.

The normal maximum credit work of an undergraduate student in the colleges of arts and sciences is fifteen, or seventeen semester hours (if one course is an eight semester hour science), and the permissible maximum is nineteen semester hours. This maximum, however, cannot be taken by a student who has not earned at least a "C" average on his work of the preceding semester.

CLASS STANDING

For a student to rank as a Sophomore, he must have to his credit twenty-four semester hours with an average grade of "C"; as a Junior, fifty-four semester hours with an average grade of "C"; as a Senior, ninety semester hours with an average grade of "C."

SENIOR WORK

A student of the Senior Class irrespective of his average grade in preceding years, must, in order to be eligible for graduation, complete the work of his Senior year with an average grade of "C" or better.

EXCLUSION FOR FAILURE

A student of the Freshman Class entering college for the first time is not permitted to remain in the University in the second semester unless he passes as much as six semester hours of the work of the first semester; any other student is not permitted to remain in the University in the second semester unless he passes as much as nine semester hours of work in the first semester.

A student of the Freshman Class is not permitted to re-enter in September, nor to enter the Summer Session, if he did not pass at least six semester hours of work in the second semester of the previous year and

a total of eighteen semester hours of work for the entire year; any other student is not permitted to re-enter in September, nor to enter the Summer Session, if he did not pass at least nine semester hours of work in the second semester of the previous year and a total of eighteen semester hours of work for the entire year.

STUDENTS TRANSFERRING FROM OTHER INSTITUTIONS

Students whose advanced credits from another institution are accepted by the University will be given an average grade of "C" on the semester hours with which they are credited, provided their grades warrant it.

DEFICIENCIES IN COMPOSITION

The following regulations have been adopted by the Faculty:

1. Any Freshman who is found by the English Department to be unable to handle satisfactorily the work of composition in English 1-2 is required to take special work until he is able to do satisfactorily the regular work of English 1-2.

2. No student who has failed in English 1-2 or 53 is permitted to become a special student without continuing his work in composition until he has made up his deficiency in this work.

3. Whenever the work of a student in any subject is satisfactory to an instructor except for gross errors in English, the instructor concerned may hand in a provisional grade only. This grade may not be recorded in the college files until the student shall have improved his work in composition to the satisfaction of the English Department. A list of such provisional grades, along with evidence of deficiencies, shall be furnished the English Department each term by the officers in charge of the grades, and a report shall be made by this department when the deficiencies shall have been removed.

4. All instructors are requested to advise their students each semester concerning these regulations.

CANDIDATES FOR ACADEMIC DEGREES

1. A tentative list of all candidates for the Bachelor's degree shall be prepared under the supervision of the Dean of the College as early in the college year as possible, shall be read by him to the Faculty at its first regular meeting in October, shall be furnished in copy to each department of instruction for information and reference, and also shall be posted in copy on the official bulletin board of the University for the information of the students concerned.

2. Copies of the second such tentative list likewise shall be prepared, read, and distributed by April 15.

3. A final list of all candidates for the degree shall be read by the Dean to the Faculty at its first regular meeting in May and shall be

adopted by the Faculty as the final list. After the adoption of this list no name may be added to it.

A student who completes in a summer session the work required by the University for the Bachelor's degree will be granted the degree at the end of that session.

CLASS ATTENDANCE

TRINITY COLLEGE AND THE COLLEGE OF ENGINEERING

Absence of an undergraduate civilian student of Trinity College or the College of Engineering from his classwork is excused only if the absence is unavoidable, due to illness, or approved beforehand by the Dean of the College. Punctual attendance also is required; both tardies and absences are reported at the end of each week to the Dean's Office by every instructor. They must be explained promptly by the student to the satisfaction of the Dean; otherwise they are regarded as unexcused. For the first unexcused absence from a course, the penalty is the loss of one quality point in that course; for the second from that course, the loss of an additional quality point in the course and probation in the course; for the third from that course, removal from the course without credit for the work done in it. Three unexcused tardies in a course carry the same penalty as one unexcused absence from that course; four in a course that of two unexcused absences from that course; five in a course, that of three unexcused absences from the course. A student shall be recorded as tardy if he is not present at roll call. A student who is dropped from two or more courses for excessive unexcused absences or tardies is dismissed from college for the rest of the semester.

Instructors' weekly attendance reports are filed in the Dean's Office and become a part of the permanent record of all students. No instructor has the authority to excuse either tardies or absences of students.

THE WOMAN'S COLLEGE

Regular and punctual attendance in classwork is expected of all students.

Weekly reports of all absences from class are made by each instructor and are filed in the Dean's Office. A permanent record of the attendance of each student becomes a part of her general college record. The instructor has no authority to excuse a student from class attendance, and it is his duty to report all absences, for whatever cause, to the Dean's Office at the end of each week.

In order to provide for an occasional short illness or for a sudden emergency, one absence per semester-hour credit may be incurred in each course during each semester without penalty, but no consecutive absences, except for illness or unless excused beforehand by the Dean, may be taken in any course, unless the class is scheduled on consecutive days. As stated above, the purpose of this rule is to provide for those absences made necessary by illness and various emergencies, and students should reserve them for such occasions.

For any consecutive absences from a course, except for illness in the Infirmary, excuse from the Dean's Office is necessary. Excuse for absence due to prolonged illness or to authorized representation of the University in a student acitvity must also be obtained from the Dean's Office.

After the total number of absences allowed in any course has been incurred by a student for any reason whatsoever, no further absences, except those excused by the Dean, may be incurred.

No absences on days immediately preceding or following a holiday will be allowed.

PENALTIES FOR UNEXCUSED AND EXCESS ABSENCES

For each excess unexcused absence in any course, for each unexcused consecutive absence in any course, and for each unexcused absence before or after a holiday, the student will lose one-half semester hour from the total number of semester hours credit.

In addition, for excess absences a student may, at the discretion of the Dean, be put on probation or dropped from college.

The above regulations do not apply to women enrolled in the Navy Program, as they are allowed no absences without an excuse from the Dean.

ASSEMBLY AND CLASS MEETINGS

TRINITY COLLEGE AND COLLEGE OF ENGINEERING

There shall be held on the first Thursday of each month of the college year in Page Auditorium, from 12:30 P.M. to 12:50 P.M., an assembly of all Seniors, Juniors, and Sophomores of Trinity College, and at this period of the day separate meetings of these three groups on the second, third, and fourth Thursdays of each month. There shall be a class meeting of the Freshman Class on each Saturday of every month at the time named above. The Engineering assemblies are held on the first Wednesday of each month from 12:30 P.M. to 12:50 P.M. in 104 Asbury.

Attendance upon all of these meetings is compulsory for all students involved. Any student incurring in a semester a total of more than four absences from them automatically excludes himself from college.

WOMAN'S COLLEGE

A weekly assembly is held for all students in the Woman's College, and an additional assembly for all Freshmen and transfer Sophomores. A meeting of the Freshman Class is held each week, and other classes meet at appointed times.

Attendance upon all of these meetings is compulsory for all students involved.

SCHOLASTIC REGULATIONS FOR ATHLETIC AND OTHER ORGANIZATIONS

The following regulations have been adopted by the Faculty:

1. Any student who receives less than a passing grade on more than six hours of his required work of the preceding term shall be ineligible to represent the University in any athletic contest, concert, or other public event.

2. Members of athletic teams or other student groups engaging in public representation of the University are expected to be carrying satisfactorily their current work. A student may be barred from participation in such representation if, in the opinion of the Dean, he is not doing satisfactorily his current work.

Duke University is a member of the Southern (Athletic) Conference and observes the following scholastic requirement of that Conference:

> "The scholastic requirement for eligibility to participate in varsity intercollegiate sports shall be the passing by the applicant of a minimum of twenty-four semester hours or thirty-six quarter-hours of the work of his immediately preceding year in college; with the proviso that graduate students and students in the schools of law and medicine become scholastically eligible on the certificate of the deans of their schools."

THE ATHLETIC COUNCIL

The Board of Trustees, at its regular annual meeting in June, 1907, created an Athletic Council to be composed of eleven members appointed annually: three from the Faculty, to be appointed by the President of the University; four from the alumni, elected by the Alumni Association; and four from the undergraduates, one from each of the four classes, elected by the members of each class.

The three members of the Athletic Committee of the Faculty are the Faculty representatives in the Athletic Council. This committee alone has the responsibility of enforcing the scholastic and athletic requirements of the University for student participation in intercollegiate sports. The athletic eligibility rules are those of the Southern Conference; the scholarship requirements are printed elsewhere in this catalogue.

The Executive Committee of the Athletic Council is composed of the Chairman of the Faculty Committee on Athletics, and one other Faculty member and one alumni member of the Council. The Athletic Council on recommendations of its Executive Committee arranges athletic schedules, awards insignia of merit earned by members of athletic teams, and strives to promote among students of the University a proper and helpful athletic spirit; to encourage good fellowship in such sports both within the student body and toward student bodies of other educational institutions; through athletic sports to help cultivate a high sense of honor, earnest, unselfish effort, and manly conduct. The Executive Committee of the

Council recommends to the President of the University persons to serve as Graduate Manager of Athletics and as coaches in the various sports. The election of such persons, however, rests solely with the Trustees of the University or the Executive Committee of the University, on recommendation of the President of the University.

All funds arising from athletics are handled entirely by the Treasurer of the University. An audit of the receipts and disbursements of these funds is made annually by the official auditors of the University.

CONDUCT OF STUDENTS

The University expects of its students loyal and hearty co-operation in developing and maintaining high standards of conduct as well as of scholarship. The University therefore reserves the right, and matriculation by the student is a concession of this right, to ask the withdrawal of any student whose conduct at any time is not satisfactory to the University, even though no specific charge be made against the student.

ADMINISTRATION OF DISCIPLINE

General oversight of the conduct of students and the administering of discipline are vested in the Dean of the University. The duty of immediate supervision, guidance, and control of the students in each college is entrusted to the Dean of that College. However, through the expressed willingness of the students of the University to assume the responsibility of maintaining high standards of morals and honor at all times the student body has properly become in a great degree self-governing in this respect. Two councils, one of men and the other of women, each composed of carefully chosen and duly elected representatives of the student body, exercise the authority granted the students to investigate all cases of misconduct, a swell as all other cases of violation of proper student standards and traditions and to make recommendations of penalties based on their findings. Occasions seldom occur where such recommendations are not accepted and enforced.

The student councils have been of great help to the administrative authorities of the University. They not merely exercise police authority for restraining and punishing evildoers but also exert a guiding and stimulating influence for the promotion of high ideals of conduct and student relationships.

REGULATIONS REGARDING PUBLIC LECTURES AND OTHER PUBLIC OCCASIONS

All public lectures or addresses and other public events that are given under the auspices of the University or of any organization in any way connected with the University are under the supervision of the Faculty Council on Public Lectures. All dates and programs must be approved by this council except in instances where such occasions have been placed under the supervision of the Director of Public Relations.

(1) The Council on Public Lectures shall provide each year an official calendar.

(2) All public occasions held on either the East or West University Campus are listed for the Weekly Calendar of Duke University in the office of the Department of Public Relations and Alumni Affairs in the West Campus Union. This calendar appears each Saturday, and such notices must be received by 10:00 A.M. on the Friday preceding.

Social or other events held in the West Campus Union must be listed in the office of the Director of Public Relations and Alumni Affairs, and permission must be secured for such social use of the public rooms in the building.

REPORTS

Reports of the class attendance records and of the proficiency of each student in studies are sent to his parents or guardians after the examinations at the end of each semester. For Freshmen, mid-semester reports are made.

HEALTH AND PHYSICAL EDUCATION

The program of Health and Physical Education in Duke University has four distinct phases, as follows:

1. Student Health.
2. Physical Instruction.
3. Intramural Sports.
4. Intercollegiate Athletics.

MEDICAL CARE

With the exceptions noted below, full medical and surgical care is furnished to all regularly matriculated students of the University, during both the college year and the summer quarter, at no additional cost to them beyond the medical fee of $5.00 payable each semester or the medical fee charged each student of the summer quarter. This service is under the direction of the University Physician with the co-operation of the Staffs of the Infirmaries (one on each campus) and the University Hospital. It includes hospitalization (limited to thirty days), medical and surgical care, drugs, dressings, X-ray work, and ward, but not special nursing. A charge for board is made at the same rate as in the University dining halls, and student meal tickets for these halls are accepted in payment of this board. Refraction of eyes, treatment of teeth and of all chronic and pre-existing conditions, such as diseased tonsils, hernias, elective surgery, chronic skin conditions, endocrine disturbances, etc., or accidents or illnesses occurring during vacations or while off the campus, are not included in this service. The cost of any necessary braces and orthopaedic appliances, as well as of special nursing, must be borne by the student.

No illness is treated in dormitory or other rooms occupied by students. Students needing treatment for minor medical or surgical conditions have the attention of the Director at his two daily visits to the Infirmaries,

which have day and night nurses on duty. Students developing serious conditions are promptly transferred from the Infirmaries to the University Hospital, where they come under the care of the Staff of the Hospital.

A questionnaire is sent out from the office of the Director of Student Health in the spring to all prospective students, advising certain medical and surgical care by their home physician or surgeon, such as the giving of typhoid or smallpox vaccine, removal of diseased tonsils, correction of errors of refraction, repair of a hernia, or removal of a chronic appendix. Important time is frequently lost in correcting these conditions after entrance into college, and the cost for this work must be borne by the student.

When the student comes to the University, he is given a careful physical examination. Any physical defects are recorded along with the record of the questionnaire from the family physician. All students are requested to be successfully vaccinated against smallpox before admission to the University. It is urgently advised that they take typhoid vaccine if they have not done so within three years.

PHYSICAL EDUCATION AND INTERCOLLEGIATE SPORTS TRINITY COLLEGE AND THE COLLEGE OF ENGINEERING

The University requires all students to engage in some type of physical activity for two years or four full semesters. This work consists of participation in natural, practical, physical activity for at least three one-hour periods each week. A credit of six hours, with an average grade of "C," is required in physical education for graduation. The purpose of this work is to improve body control and strength through big muscle activities, to stimulate the development of mental and physical alertness, to establish habits of regular exercise, and to give training and experience in various kinds of recreational sports that will be indulged in after the student graduates from the University.

Intramural sports are fostered and promoted in all lines of athletic activity. Meets, tournaments, and leagues are seasonally organized in the different sports. All students in the University are eligible to enjoy the intramural privileges, provided they comply with the intramural rulings. Participation in these activities is entirely voluntary, but is very popular because it provides an opportunity for every man to enter into competition and recreation in those sports which he enjoys most.

The intercollegiate athletic program is controlled entirely by the University and consists of the organization and training of representative Freshman and varsity teams in the following sports: football, basketball, baseball, track, cross country, swimming, lacrosse, wrestling, tennis, and golf.

WOMAN'S COLLEGE

The Physical Education Department aims to give all students an appreciation of the value of activity for general physical well-being, skill in one or more activities which can be enjoyed as recreation after college, a well-developed and well-coordinated body, and a knowledge of good posture and efficient handling of the body in everyday activities.

To this end, students are allowed to choose from a large number of activities including outdoor individual, dual, and team sports, several types of dancing, swimming, and gymnastics. All Freshmen are expected to take body mechanics in the winter, and each student must elect a rhythm, one team sport, and two individual or dual sports sometime during the three years of required physical education.

With the wartime emphasis on physical fitness for women as well as men, the more vigorous activities are being stressed. At present, therefore, all required work must be elected from the group of activities designated by the Department as vigorous. Light activities may be elected in addition to the required work.

In addition to the required work in physical education the Dance Club, the Swimming Club, and the Woman's Athletic Association give opportunities for all students to take part in the types of intramural activities most interesting to them. The swimming pool, tennis courts, and other athletic equipment are available to all students for use at specified times.

PHYSICAL EDUCATION AND RECREATION FEES

In order to meet certain hygienic aspects of physical education and intramural athletics the University has made available for all students, in addition to facilities for physical activity and recreation, the following equipment and services:

1. (a) Men. A regulation uniform: shirt, trunks, supporter, socks, sweat clothes, and towel.
   (b) Women. Gym suit, dance costume, bathing suit, warm-up suit.
2. Provision for locker and handling of uniform.
3. The laundering of uniform and towel as needed.

The privileges and services listed above are available to all students upon payment of the Recreation Facilities and Equipment Fee, so long as they comply with the rules and regulations established for the care and handling of same. Students enrolled in required physical education courses have been assessed an additional fee (see Laboratory and Materials Fees). This fee is necessary in order to make more equitable the maintenance of locker system and usage of uniform.

PUBLICATIONS COUNCIL

The student publications of the University are under the control of a council that was established in 1924 and reorganized by the Executive Committee of the University in 1935, and is constituted as follows: three (3) members from the University Staff appointed by the President of the University; two (2) members from the alumni appointed by the President of the University; six (6) men from the Junior and Senior classes, elected by the students in Trinity College and the College of Engineering; four (4) women from the Junior and Senior classes, elected by the students in the Woman's College; and three (3) editors and three (3) managers of student publications, ex officio members without any voting

power. With the advice of the Council, the President of the University appoints each year for each publication an advisory committee of three (3) members from the Staff of the University.

No student publication can be started at the University without the approval of the Council.

RELIGIOUS EXERCISES

Chapel exercises are conducted throughout the academic year at 6:40 P.M. Thursday on the campus for men. Preaching services are held on Sunday at 11:00 A.M. in the University Chapel. Organ recitals are given on Sunday afternoons. In the summer carillon and organ recitals are given twice a week.

APPOINTMENTS OFFICE

The University maintains an Appointments Office, and its services are extended to all students and alumni without charge. This office has two divisions, commercial (general placement) and educational (teacher placement). Students and alumni are encouraged to register with the office in order to make available in one center information respecting their various qualifications for the employment they seek.

FEES AND EXPENSES

The following tables show the general fees and charges collected from all students and the special fees collected from those taking courses in the sciences and in history. All fees for each semester are due and payable, unless otherwise specified, at the time of registration at the beginning of that semester, and no student is admitted to classes until arrangements have been made with the Trasurer of the University for the settlement of fees.

GENERAL FEES

Matriculation, per semester	$ 25.00
Tuition, per semester	100.00
Room-rent—See the detailed statement that follows.	
Athletic Fee, admitting students to all athletic contests held on the University grounds, per semester	5.00
*Recreation Facilities and Equipment Fee, per semester	1.00
Damage Fee, payable annually at the time of first registration	1.00
Medical Fee, per semester	5.00
Library Fee, per semester	5.00
Commencement Fee, payable annually at the beginning of the second semester	3.00
Publication Fee:	
First semester	3.00
Second semester	2.50
Diploma Fee, payable by candidates for degrees, refunded if the diploma is not awarded	5.00

LABORATORY AND MATERIALS FEES

Botany 1, 2, 52, 55, 101, 104, 202, 204, 221, 255, and 256	$ 2.50
Botany 51, 103, 151, 156, 203, 216, and 252	5.00
Forest Botany 224 and 253	2.50
†Chemistry 1, 2, 61, 70, 131, 132, 153, 154, 215, 216, 261, and 262	7.00
Chemistry 151, 152, 155, 241, 242, 253, and 254	8.50
Education 1, 58, 68, and 101	1.00
Education 112, 115, 116, 122, and 131	7.50
Education 208 (for testing materials in lieu of text)	2.50
Engineering	
Civil S60—See *Summer Session Bulletin.*	
Civil 61, 63, 64, 112, 118, 123, 124, 135, 143, 144, and 240	2.00
Electrical 153, 154, 161, 162, 163, 164, 261, 262	2.00
General 109	2.00
Mechanical 113, 114, 159, 160, 176	2.50
Forest Botany 224 and 253	2.50
Forestry 224, 253, 254, 259, 260, 264, 357a, and 358a	2.50
Forestry 261, 351, 352, 354, 357b, 358b	$2.50 to $5.00
Geology 51, 52, 53, 101, 151, and 152	2.50
Geology 102	5.00
Field trip in Geology 51-52 and 101-102 at cost.	

* See Physical Education and Intercollegiate Sports.

† When the laboratory in Chemistry 153-154 supplements that of another course and is taken simultaneously with such course, no fee is charged with Chemistry 153-154.

History 91 and 92 ..... 3.00
No texts are required in these courses, but a fee of $3.00 is charged, and books are placed in the Library for the use of those taking the courses. This fee is payable at the beginning of the semester and is collected through the office of the Treasurer of the University.
*Physical Education, per semester, for men 1.50
*Physical Education, per semester, for women 1.00
Physics 1 and 2 ..... 2.00
Physics 51, 52, 57, 58, 61, 62, 70, 103, 104, 108, 215, 216, 217, 218, and 219 3.00
Physics 106 ..... 5.00
Zoology 1, 2, 92, 161, 204, 219, 220, 222, 274, 276, 306, 324, 343, 353, and 354 ..... 3.00
Zoology 53, 151, 156, 224, 229, 303, and 321 ..... 5.00

TEACHERS TAKING COLLEGE COURSES

Teachers in near-by schools, taking one or two courses, are required to pay a registration fee of $5.00 each semester and a tuition fee of $3.00 per semester hour of credit in addition to any regular laboratory fee or other fees collected from those students taking the courses.

ESTIMATED EXPENSES FOR AN ACADEMIC YEAR

The necessary expenses of a student are moderate; the University dormitories provide thoroughly comfortable and wholesome living conditions at a minimum of cost, while all charges made by the University have been kept low. Incidental expenses depend naturally upon the tastes and habits of the individual, but the actual necessary college expenses for one year, including board, room-rent, and such University fees as tuition, matriculation, commencement, library, damage, and medical, vary from $574.50 to $639.50 for a two-semester year. Books and laundry are not included in these figures.

LIVING ACCOMMODATIONS FOR MEN

Single room, per semester—Craven, Crowell, and Kilgo Quadrangles, West Campus $75.00
Double room, per student, per semester—Craven, Crowell, and Kilgo Quadrangles, West Campus 62.50
Double room, per student, per semester—Southgate Hall, East Campus .. 50.00
Double room, per student, per semester—Epworth Hall, East Campus .. 30.00

There are three groups of resident houses designated as Craven, Crowell, and Kilgo Quadrangles on the West Campus. The rooms are single, double, or arranged in suites of two rooms for four students. There are thirty-one houses within the three groups designated by the letters of the alphabet.

There are also two dormitories on the East Campus used for men—Southgate and Epworth halls. All these rooms are equipped for two persons. Students in the College of Engineering are expected to live in either Southgate or Epworth, which are located near the Engineering College. Room reservation fees and applications for room assignments should be addressed to the Director in the Business Division, East Campus.

* See Physical Education and Intercollegiate Sports, p. 170.

There is one building definitely assigned as a Freshman dormitory.

Rooms are reserved only for applicants who have been officially accepted by the University, upon application to the Director in the Business Division, Duke Station, Durham, North Carolina. A reservation fee of $25.00 at the office of the Director in the Business Division is required. This reservation fee is deducted from the room charges at the time of registration for the fall semester.

A resident student in order to retain his room for the succeeding semester is required to make application accompanied by a reservation fee of $25.00 at the office of the Director in the Business Division. All rooms which have not been reserved on or before an announced date will be considered vacant for the succeeding semester and will be reserved in the order in which applications are made.

Rooms are rented for no shorter period than one semester, or in the case of a medical student, one quarter, unless by special arrangement with the Director in the Business Division. A period of occupancy other than a semester or quarter and without special arrangement will be charged at a minimum rate of $1.00 each day.

The exchange of rooms may be arranged for at the Housing Bureau within fifteen (15) days after the official opening of the semester or quarter of the school term. A charge of two dollars ($2.00) will be made for the exchange of rooms after the periods allowed for such exchange. Persons exchanging rooms without the approval of the Housing Bureau will be subject to charges for both rooms.

The authorities of Duke University do not assume the responsibility of selecting and assigning roommates, though they will gladly render any assistance possible.

DORMITORY REGULATIONS

Duke University is particularly eager that its students shall have the best dormitory life to be found in any institution, and to encourage this has provided buildings and equipment which are not surpassed. The institution asks and believes that in return each student will respond to this effort by arranging his personal belongings in an orderly manner, and by caring for the buildings and funiture as he would do in the home of a friend. The following regulations are offered as a guide and a reminder that care is desired.

1. The student will be held responsible for any damage to the room or furnishings during the rental period, and will pay for all damages caused by his neglect, misuse or abuse of any part of the University property. Inspections will be made throughout the college year to observe the condition of the rooms and to advise students concerning the care of rooms, if necessary.
2. Maids will prepare the rooms daily except Sunday, the service beginning promptly at 8:00 A.M. and ceasing at 1:00 P.M., thereby giving the student complete use of his room during the afternoon.
3. University furniture or furnishings must not be removed from the room in which they have been placed by the University.
4. Electric wiring, door locks, window screens, steam or water lines should not be changed or added, since the University supervises and makes such changes as are necessary and advisable.

5. Pictures, pennants, clippings should be hung from the picture moulding and not tacked or pasted on walls or woodwork.

6. Each student is expected to supply necessary sheets, blankets, pillows, rugs, and curtains. Furniture, beds and mattresses (39" x 74"), tables, chairs, dressers, mirrors, and window shades are furnished by the University.

7. All trunks and heavy luggage will be stored in the trunk rooms. Janitors will remove the trunks from the hallways to the storage rooms when they are unpacked.

8. The exchange of rooms or keys should be arranged for at the office. Any exchanges made otherwise will subject the participant to charges for both rooms.

9. The use or possession of intoxicating liquors, wines or beer, and gambling in any manner in any of the buildings or on the grounds of Duke University are forbidden.

10. Animals shall not be kept in the dormitories.

11. Women are permitted in the dormitories only when accompanied by the University Hostess.

12. The use of dormitory rooms as a sales office or storeroom, or the solicitation for sales or gifts within the buildings or on the grounds is prohibited except by appointees of the University.

LIVING ACCOMMODATIONS FOR WOMEN

The Woman's College campus, known as the East Campus, is situated about a mile and a quarter from the West Campus, with a private road connecting the two.

Houses—The seven residence houses on the East Campus are Alspaugh, Aycock, Bassett, Joseph G. Brown, Giles, Jarvis, and Pegram. A plan of the houses will be sent upon request to the Director in the Business Division, College Station, Durham, North Carolina. Each house has a resident head of house and paging system for announcing visitors.

Rooms—All questions concerning rooms should be addressed to the Director in the Business Division. The students' rooms are single, double, or arranged in suites of two rooms for two students.

Room Furnishings—Rooms are supplied with all necessary furniture. Curtains, towels, sheets, pillow-slips, blankets, and heavy bed covering, etc. are furnished by the students. Sash curtains of a standard type are required and can be bought at the College Store. Draperies, small scatter rugs, and study lamps can be brought from home or bought at reasonable prices from the College Store or in the city. Large rugs and heavy overstuffed furniture may not be brought into the dormitories.

Room-rent—

Single room, per student, per semester, Giles, Alspaugh, Pegram Bassett, Brown and Jarvis Houses	$87.50
Double room, per student, per semester, Giles, Alspaugh, Pegram, Bassett, Brown and Jarvis Houses	62.50
Single room, per student, per semester, Aycock House	75.00
Double room, per student, per semester, Aycock House	50.00

Room Reservation—A room reservation fee of $25.00 is required before any room reservation can be made for new or returning students. This fee is deducted from the room charges at the time of registration for the fall semester. Applicants for admission are requested not to send the room reservation fee until notified of acceptance. Those who make application and are accepted will not be entitled to have the reservation fee refunded unless the request is made on or before July 15. Those who are accepted after July 15 have ten days in which to pay their room reservation fee. This fee is not refundable.

No room assignments will be made for new students until they have been officially accepted by the Council on Admissions. The room reservation fee of

$25.00 is payable immediately upon notification of acceptance by the Council on Admissions. If room reservation fee has not been received within ten days after notification of acceptance by the Council on Admissions, the admission will be canceled.

Details relative to the signing of rooms by resident students will be posted on dormitory bulletin boards about April 15. Resident students have the right to retain their rooms for the ensuing year or to sign for new ones in the order of their class beginning with the Seniors. The new students are then assigned the remaining rooms, and in so far as possible, the type of room which they prefer. The University is responsible for the fall semester only for securing roommates for new students desiring double rooms. After a student has been a resident for one semester, the responsibility for securing and keeping a roommate is transferred to the student. If a student occupying a double room does not have a roommate by the date posted, approximately two weeks after the beginning of the semester, she will be required to pay double rent. The University is glad to co-operate in assisting the student to find a roommate.

When a room is once engaged by a student no change will be permitted except with the consent of the Director in the Business Division. Leaving one room and occupying another without permission is strictly against the rule and will render the offender liable to a charge for both rooms for the entire semester. No occupant is permitted to rent or sublet a room to another occupant. Rooms are rented for no shorter period than one semester. When a student leaves school before the end of the semester, the charge is $1.00 a day unless the total charge on this basis is in excess of the room rent for the semester. All undergraduates who are not residents of Durham are required to live in the dormitories unless they are living with their parents or near-relatives. An undergraduate woman who is over twenty-one years of age and who wishes to live in the city may make special arrangements with the Dean. Provision is made for graduate students to live on the campus.

No visitors are permitted in any sections of the dormitories which are occupied by women except by permission of the office of the Head of the House. Merchandising, solicitation, or advertising of any type is strictly forbidden within the dormitories.

BOARDING ACCOMMODATIONS

Trinity College, West Campus.—Beginning with the academic year 1930-31 the University opened its dining hall in the Union on the West Campus with accommodations sufficient to provide in a superior way for all resident men students. Charges for board are approximately $30.00 per month.

The Union is the logical center of student activities for men, and it will be found desirable for male students to board in its supervised halls. In the Union are located the University Post Office, the University Store, the University Barber Shop, and all publications staff offices.

In addition to the Union dining halls, the Coffee Shop is operated for the convenience of students and visitors.

Woman's College, East Campus.—The dining halls of the Woman's College are situated in the Union, the student center, on the East Campus. No resident woman is permitted to board elsewhere than at this Union. Board is $125.00 per semester.

Because of the large number of those served in the Union dining halls, it is not possible to arrange special diets for individual students. Special diet for the sick is served in the Infirmary.

The Union includes a Faculty dining room, a lounge, and other rooms for various student activities.

College of Engineering, East Campus.—The James H. Southgate Memorial Building, set aside for the housing of engineering students, contains social rooms, gymnasium, dining hall, and kitchen, as well as dormitory facilities. Meals are provided in this building at the same rate which prevails in the other University dining halls.

LAWS REGARDING PAYMENTS

The Executive Committee of Duke University has enacted the following regulations which govern the payment of all fees due the University:

1. The President and the Treasurer of the University have no authority to suspend or in any way alter these regulations.
2. Matriculation and tuition fees are never refunded.
3. Any student who has failed to pay his bills on the dates advertised in the catalogue is denied the right to attend classes until his account is settled in full.
4. No student is considered by the Faculty as an applicant for graduation until he has settled with the Treasurer for all his indebtedness to the University.
5. No student who has not settled all his bills with the Treasurer of the University is allowed to stand the midyear or final examinations of the academic year.

When a student wishes his bills sent to his parents or guardian, the student or his parent or guardian must so notify the Treasurer of the University in writing in due time, but this in no way releases the student from liability to established penalties, if his bills are not paid on the dates advertised.

TRANSCRIPTS

Students desiring to transfer from Duke University to another institution are entitled to one transcript of their record. A charge of $1.00 is made for each additional copy.

SCHOLARSHIPS, LOANS, AND EMPLOYMENT AID

Duke University annually awards available scholarships, administers loan funds, and supervises student employment through a committee of the Faculty for deserving undergraduates of Trinity College, the Woman's College, and the College of Engineering.

SCHOLARSHIPS

Scholarships intended to aid needy and deserving students have been established from time to time by persons deeply interested both in Duke University and in the members of its student body. Such scholarships are supported by the income from invested funds. All scholarship endowments are held in trust and are kept separate and distinct from other holdings of the University. All income is faithfully applied in accordance with the terms of the gift or bequest.

In addition, a limited number of scholarships, notably the honorary awards in recognition of scholastic merit and strength of character, are financed through current funds of the University.

Scholarships are awarded annually by a committee of the Faculty appointed by the President of the University. In some cases donors have specified certain limitations and conditions. These are faithfully followed, but in all cases final award is made by the Faculty committee.

As a general rule, scholarships cover tuition charges only, though in some instances provision has been made for larger amounts. Any prospective student may apply for a scholarship. No application, however, may be made formally by a prospective student until application for admission has been made, all necessary credentials have been presented, and notification of acceptance has been given. The number of scholarships available is small in comparison with the number of undergraduate students enrolled in the University, and as a result the committee in making the awards attempts in so far as possible to limit scholarship aid to cases where the need is imperative. Before applying for such aid, a student should first have exhausted all means of aid from parents, kinsfolk, interested friends, and commercial or civic agencies in his home locality.

All applications for scholarship aid should be made to the Scholarship Committee, Secretary's Office, Duke University.

The list of scholarships available for undergraduates appears in the General Catalogue of the University.

LOAN FUNDS

A number of loan funds have been established for the benefit of students of Duke University. The most important and largest of these is the Angier B. Duke Memorial Student Loan Fund, which is administered

through an advisory committee of officers of the University. The amount available to be loaned annually depends upon the income from investments and on the amount repaid on loans previously made to students.

The same committee of officers administers the other endowed loan funds of the University.

Although a considerable sum accrues annually for loans to students, it is not sufficient to provide for all calls for assistance. The committee in approving loans selects those students who from the standpoint of character, scholastic attainment, personality, and degree of financial need are most deserving of consideration.

The following regulations govern the making of all student loans:

1. No loans shall be made to a student who violates any of the regulations of the University or whose classwork is not satisfactory to the Faculty.

2. As a general policy a student is not potentially eligible for loan assistance until he has been in residence at least one semester and until those responsible for the administration of loan funds have had an opportunity to acquaint themselves with the worthiness and the need involved in any particular case.

3. Loans will be made only to students who are taking approved courses of study that lead to a degree, and all loans must be arranged for not later than one week after the beginning of a semester.

4. Every applicant for a loan must present with the application such security as the President of the University may approve, and no money shall be advanced before a note with approved security is in the hands of the Treasurer of the University.

5. No loan will be made to defray any other expenses than those incurred during the academic year for tuition, for matriculation, or for room-rent.

6. Interest at a rate of 6 per cent annually shall be charged for all loans of money, and the interest must be paid annually.

7. Applications for loans should be made to the Loan Committee, Secretary's Office, Duke University Station. A formal application for loan assistance may be made only on blanks furnished is the Secretary's Office at the time of registration. The granting or withholding of a loan is a matter entirely within the discretion of the Loan Committee. A student is expected to use all other possible means of securing financial assistance before applying for aid from the Loan Fund.

EMPLOYMENT

A number of students each year secure part-time employment on the University campus and in the city. Those in need of such employment may apply to the Secretary of the Committee on Student Aid, Secretary's Office, Duke University. No definite number of such places can be promised. Available places will be assigned in accordance with the merit and the need of the applicants.

HONORS AND PRIZES

To be eligible for Honors a student must earn during the year a credit of not less than thirty semester hours. Students in the Freshman, Sophomore, and Junior classes who earn an average of at least two and one-half quality points per semester hour are given Honors. All semester hours on which a student receives a grade are counted in the determination of Honors.

The degree of Bachelor of Arts or of Bachelor of Science with distinction is conferred upon the following rules:

Students who have completed a minmum of ninety semester hours in Duke University are eligible for general Honors at graduation. Those who earn an average of at least two and one-half quality points per semester hour are recommended for a degree *magna cum laude*. Those who earn an average of at least two and three-fourths quality points per semester hour are recommended for a degree *summa cum laude*. All semester hours taken in Duke University on which a student receives a grade are counted in the determination of Honors.

MEDALS AND PRIZES

The Wiley Gray Medal was established by the late Robert T. Gray, Esq., of Raleigh, North Carolina, to be awarded annually in memory of his brother. It is given for the graduating oration that shall be, in the opinion of a committee, the best, with respect to both declamation and composition.

The Debate Council authorizes the awarding of medals to members of the graduating class who have represented the University in at least two intercollegiate debates. The medals are given by the local chapter of the Tau Kappa Alpha Fraternity.

The Robert E. Lee Prize is the gift of the Reverend A. W. Plyler, of the Class of 1892, and Mrs. Plyler. The sum of $50 is awarded annually at Commencement, preferably to that member of the Senior Class who in character and conduct, in scholarship and athletic achievement, in manly virtues and the capacity for leadership, has most nearly realized the standard of the ideal student. The Dean of the College, the Graduate Manager of Athletics, and the President of the Student Council constitute a committee to draft and adopt regulations governing the award.

Alpha Kappa Psi Medallion. This prize is offered each year to the member of the graduating class who makes the highest record in economics and business administration during his career at the University.

The Willis Smith Prize. Mr. Willis Smith, a member of the Raleigh Bar and Chairman of the Law School Committee of the Board of Trustees of Duke University, awards each year to that member of the graduating class of the Law School who has maintained the highest scholastic average during the entire three years of Law School work, a prize consisting of a set of books selected personally by Mr. Smith each year for that purpose.

Julia Dale Prize in Mathematics. This is a prize of books given annually to the undergraduate who shows the greatest proficiency in the study of the calculus.

The Milmow Prize, consisting of one year's subscription to the *Electrical World,* is awarded each year to that student from North or South Carolina graduating in the Department of Electrical Engineering, who, in the opinion of the Faculty of that department and as shown by his grades, has made the most progress in electrical engineering during his last year in college.

Institute of the Aeronautical Sciences Awards. Two annual awards, each consisting of a two-year paid-up membership in the Institute and a certificate, presented, respectively, to the student presenting the best paper before a meeting of the Duke student branch of the Institute, and to that student of the Department of Mechanical Engineering making the highest scholastic record in aeronautical engineering courses.

The Pegram Chemistry Club Prize will be awarded in the spring of each year for scholarship in chemistry, physics, and mathematics. The prize is to consist of one-year junior membership in the American Chemical Society, and a one-year subscription to either the *Journal of the American Chemical Society,* or to *Industrial and Engineering Chemistry.* To qualify for this prize the student must (1) be enrolled as an undergraduate of Duke University and (2) be taking or have taken a fourth-year chemistry course. The winner of this prize is to be selected by a committee consisting of at least one Faculty member and at least two members of the Pegram Chemistry Club; the selection is to be based on the quality-point average for all courses taken in chemistry, physics, and mathematics. In case of a tie equal awards will be given.

The Sigma Xi Prize. The Society of the Sigma Xi, honorary scientific society, is devoted to the encouragement of scientific research, and seeks to stimulate those who show promise of accomplishment in scientific research. As an encouragement to younger men and women the Duke Chapter of Sigma Xi has established the following prizes to be awarded annually to students resident at Duke University: $20.00 for an undergraduate project or paper, $20.00 for a Master's thesis or its equivalent, and $40.00 for a Ph.D. dissertation or its equivalent. Nominations, recommendations, copies of theses, reports or other material must be in the hands of the Secretary of the Chapter on or before May 5.

The Erasmus Club Prize in the Humanities. The Erasmus Club, founded in 1925, a group of Duke faculty members interested in research in language, literature, and the arts, seeks to stimulate interest and study in these fields. To encourage Duke students in this field, the Erasmus Club has established an annual prize, amounting to $25.00, for the best original essay by an undergraduate which embodies the results of research, criticism, or evaluation in some subject in the humanities. Prospective competitors should consult some member of the Faculty, preferably their major professor. Essays must be typewritten and must be submitted to the president of the Club before the first of April. The Club reserves the right to withhold the prize in case there are no essays of acceptable quality.

STUDENT ORGANIZATIONS AND ACTIVITIES

The Men's Association of Duke University comprises all men students in Trinity College. It functions through its officers and a council to initiate policies and to oversee matters within the control of the student body. The council is composed of nine members: three executive officers, two representatives from the Senior Class, two from the Junior Class, one from the Sophomore Class, and one from Southgate Dormitory.

The *Women's Student Government Association* is similar in character to the men's association. Its council is composed of the officers of the association and ex officio of the Y.W.C.A. president and an undergraduate representative.

The Young Men's Christian Association and the *Young Women's Christian Association* are branches of the national student Christian Associations. Each body aims to enrich not only the religious life of its members as individuals but also to promote religious group activity. Delegates are sent each year to summer conferences, state conventions, interstate conventions, and the state Bible and missionary institutes. Every year a series of special religious services is held. The Open Forum Bible Class is conducted under the auspices of the Church Board.

Other organizations and activities include the following:

Bench and Bar Association (Pre-Legal Undergraduates); Classical Club (Men); "Cogs" (College Organization for General Service); Debate Council (Men); Debating Club (Women); Duke University Church (Interdenominational); Duke University Pre-Medical Society (Undergraduate Medical Group); Hoof and Horn Club; Isotes (Independent Social Group—Women); Ministerial Fellowship; Modern Dance Group; Nereidian Club (Women); Poetry Club; Quadrangle Pictures; Student Forum Committee (Women); Student Religious Council; The Duke Players; The Explorers' Club;* Town Boys' Club; Town Girls' Club; Trident Club; Wartime Social Activities Board; Women's Athletic Association; and W. H. Pegram Chemistry Club.

HONORARY ORDERS AND FRATERNITIES (NATIONAL)

Chi Delta Phi (Literary—Women); Kappa Delta Pi (Education); Omicron Delta Kappa (Leadership—Men); Phi Beta Kappa (Scholarship); Phi Eta Sigma (Freshman Scholarship—Men); Pi Mu Epsilon (Mathematics); Tau Kappa Alpha (Forensic); Tau Psi Omega (French); Theta Alpha Phi (Dramatic).

HONORARY ORDERS AND FRATERNITIES (LOCAL)

Beta Omega Sigma (Sophomore—Men); Delta Phi Rho Alpha (Athletic—Women); 9019 (Scholarship—Men); Ivy (Freshman Scholarship—Women);* Red Friars (Leadership—Men); Sandals (Sophomore—Women); Tombs (Athletic—Men); White Duchy (Leadership—Women).

* Inactive for duration of the war.

ENGINEERING ORGANIZATIONS AND FRATERNITIES

American Institute of Electrical Engineers; American Society of Civil Engineers; American Society of Mechanical Engineers; Institute of the Aeronautical Sciences; Delta Epsilon Sigma (Duke Honorary Engineering Fraternity); Engineering Student Government Association; Engineering Town Boys' Club.

MUSICAL ORGANIZATIONS AND FRATERNITIES

Kappa Kappa Psi (National Band Fraternity);* The Duke University Instrumental Music Association, comprised of members from Duke University Band, Duke University Orchestra, and chamber music groups;* The Men's Glee Club; The Women's Glee Club; The University Chapel Choir; The Woman's College Orchestra; The Woman's Music Study Club.

SOCIAL FRATERNITIES (NATIONAL)

(The Men's Panhellenic Council)

Alpha Tau Omega; Beta Theta Pi; Chi Phi; Delta Sigma Phi; Delta Tau Delta; Kappa Alpha; Kappa Sigma; Lambda Chi Alpha; Phi Delta Theta; Phi Kappa Psi; Phi Kappa Sigma; Pi Kappa Alpha; Pi Kappa Phi; Sigma Alpha Epsilon; Sigma Chi; Sigma Nu; Sigma Phi Epsilon; Zeta Beta Tau.

SOCIAL SORORITIES (NATIONAL)

(The Women's Panhellenic Council)

Alpha Chi Omega; Alpha Delta Pi; Alpha Phi; Alpha Epsilon Phi; Delta Delta Delta; Delta Gamma; Kappa Alpha Theta; Kappa Delta; Kappa Kappa Gamma; Phi Mu; Pi Beta Phi; Sigma Kappa; Zeta Tau Alpha.

STUDENT PUBLICATIONS

(Publications Council)

Archive (Monthly); *Chanticleer* (Annual); *Chronicle* (Semiweekly); *Duke 'n' Duchess* (Monthly Humor);* *DukEngineer* (Bimonthly).

STUDENT ACTIVITIES OFFICE

The Student Activities Office was established for the purpose of assisting and co-ordinating the financial activities of the various student organizations in Trinity College.

The office offers to student organizations a banking service through the office of the University Treasurer.

There is no charge for this service.

The Student Activities Office, co-operating with the University Purchasing Department, also serves in the capacity of purchasing agent for its affiliated student organizations. Problems of a general nature having to do with extracurricular activities may be discussed with this office.

* Inactive for duration of the war.

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For Bulletin of The Graduate School of Arts and Sciences, apply to *The Dean of the Graduate School,* Duke University, Durham, N. C.

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For Bulletin of The School of Forestry, apply to *The Dean of the School of Forestry,* Duke University, Durham, N. C.

For Bulletin of The Summer Session, apply to *The Director of the Summer Session,* Duke University, Durham, N. C.

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BULLETIN
OF
DUKE UNIVERSITY

THE DIVINITY SCHOOL

1943-1944
ANNOUNCEMENTS FOR 1944-1945

DURHAM, NORTH CAROLINA
1944

CALENDAR

1944

Sept. 22. Friday, 4:00 P.M.—First regular Faculty meeting.

Sept. 23. Saturday—Matriculation and registration of students.

Sept. 25. Monday, 8:00 A.M.—Instruction begins.

Sept. 26. Tuesday, 11:10 A.M.—Formal opening exercises.

Oct. 5. Thursday—Last day for submitting subjects for B.D. theses.

Nov. 30. Thursday—Thanksgiving Day: a holiday.

Dec. 11. Monday—Duke University Day.

Dec. 20. Wednesday, 1:00 P.M.—Christmas recess begins.

1945

Jan. 4. Thursday, 1:00 P.M.—Instruction is resumed.

Jan. 20. Saturday—Mid-year examinations begin.

Jan. 31. Wednesday—Matriculation and registration for second semester.

Feb. 1. Thursday—Second semester begins.

April 18-19. Tuesday, Wednesday—English Bible examinations.

May 3. Thursday—Last day for submitting B.D. theses.

May 14. Monday—Final examinations begin.

May 26. Saturday—Commencement Day.

GENERAL ADMINISTRATION

FLOWERS, ROBERT LEE, A.M., LL.D.
President of the University

WANNAMAKER, WILLIAM HANE, A.B., A.M., Litt.D.
Vice-President

DWIRE, HENRY RUDOLPH, A.B., A.M., LL.D.
Vice-President

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Dean of the Divinity School

RUSSELL, ELBERT, A.B., A.M., Ph.D., Litt.D.
Dean Emeritus of the Divinity School

INSTRUCTIONAL STAFF

GARBER, PAUL NEFF, A.B., A.M., Ph.D.
Dean of the Divinity School and Professor of Church History

RUSSELL, ELBERT, A.B., A.M., Ph.D., Litt.D.
Dean Emeritus of the Divinity School and Professor of Biblical Interpretation

BRANSCOMB, BENNETT HARVIE, A.B., M.A., (Oxon.), Ph.D., Litt.D.
Professor of New Testament

CANNON, JAMES, III, A.B., A.M., Th.B., Th.M., D.D.
Ivey Professor of the History of Religion and Missions

CLARK, KENNETH WILLIS, A.B., B.D., Ph.D.
Associate Professor of New Testament

HART, HORNELL NORRIS, A.B., A.M., Ph.D.
Professor of Social Ethics

HICKMAN, FRANKLIN SIMPSON, A.B., A.M., S.T.B., Ph.D.
Professor of Psychology of Religion

MYERS, HIRAM EARL, A.B., S.T.B., S.T.M.
Professor of Biblical Literature

ORMOND, JESSE MARVIN, A.B., B.D., D.D.
Professor of Practical Theology

OUTLER, ALBERT COOK, A.B., B.D., Ph.D.
Associate Professor of Historical Theology

PETRY, RAY C., A.B., A.M., Ph.D.
Associate Professor of Church History

ROWE, GILBERT THEODORE, A.B., S.T.D., D.D., Litt.D.
Professor of Christian Doctrine

SMITH, HILRIE SHELTON, A.B., Ph.D., D.D., Litt.D.
Professor of Christian Ethics

SPENCE, HERSEY EVERETT, A.B., A.M., B.D., D.D., Litt.D.
Professor of Religious Education

*STINESPRING, WILLIAM FRANKLIN, B.A., M.A., Ph.D.
Associate Professor of Old Testament

ADAMS, DONALD KEITH, A.B., M.A., Ph.D.
Associate Professor of Psychology

BARNES, JAMES FOSTER, A.B., A.M.
Instructor in Church Music

* Absent on leave, first semester, 1943-44.

GOLDIN, JUDAH, B.S., A.M., D.H.I.
Lecturer on Jewish Literature and History

JENSEN, HOWARD EIKENBERRY, A.B., A.M., B.D., Ph.D.
Professor of Sociology

LUNDHOLM, HELGE, Ph.D.
Professor of Psychology

LYMAN, RICHARD SHERMAN, B.A., M.D.
Professor of Neuropsychiatry

MORGAN, GEORGE ALLEN, JR., A.B., A.M., Ph.D.
Associate Professor of Philosophy

THOMPSON, EDGAR TRISTRAM, A.B., A.M., Ph.D.
Associate Professor of Sociology

WEST, ALFRED THURBER, B.S., A.M.
Assistant Professor of English

WIDGERY, ALBAN GREGORY, B.A., M.A.
Professor of Philosophy

COMMITTEES OF THE FACULTY

Admissions: Garber, Russell, Smith.
Alumni: Cannon, Hickman, Spence.
Chapel: Stinespring, Spence.
Curriculum: Garber, Branscomb, Cannon, Russell, Smith.
Endowments: Rowe, Clark, Ormond.
Extension: Hickman, Rowe, Russell.
Honors and Awards: Myers, Hart, Stinespring.
Library: Branscomb, Petry, Rowe.
Public Exercises: Smith, Cannon, Rowe.
Registration: Petry, Ormond.
Research: Outler, Branscomb, Hart.
Social: Spence, Clark.
Social Service: Hart, Smith.
Spiritual Life: Russell, Myers, Petry.
Student Field Work: Ormond, Myers, Outler.
Theses: Clark, Hickman, Outler.

THE DIVINITY SCHOOL OF DUKE UNIVERSITY

HISTORICAL STATEMENT

The present Duke University has gradually been developed from a simple beginning in a local school established in 1838 in the northwestern part of Randolph County, North Carolina. This school was enlarged in 1840 and named Union Institute. In 1841 it was incorporated as Union Institute Academy by the legislature of North Carolina. Under the leadership of President Braxton Craven, the Academy grew into an institution chartered as Normal College in 1851. An amendment to the charter in November, 1852, authorized Normal College to grant degrees, and two students were graduated in 1853 with the degree of Bachelor of Arts.

In 1859 the charter of Normal College was amended to place the institution under the control of the Methodist Episcopal Church, South, and the name was changed to Trinity College. Dr. John Franklin Crowell became president of Trinity College in 1887. The most important achievement of his administration was the removal of the College to Durham, North Carolina, which was accomplished by September, 1892.

President Crowell resigned in 1894, and was succeeded by the Reverend John Carlisle Kilgo, D.D. During President Kilgo's administration the endowment of Trinity College was greatly increased, a library and other important buildings were erected, and notable progress was made by increasing the variety and improving the quality of the courses of instruction. A School of Law was established in 1904 by the gift of James B. and Benjamin N. Duke. In 1910 President Kilgo was succeeded by Dr. William Preston Few.

Trinity College experienced a great expansion in faculty, endowment, buildings, and equipment during President Few's administration. In December, 1924, James B. Duke established a $40,000,000 trust fund for educational and charitable purposes. Trinity College accepted the terms of the indenture of trust on December 29, 1924, and on the following day the name of the institution was changed to Duke University. Mr. Duke's death in 1925 was followed by the announcement of munificent provisions in his will for the development of the University which bears his family name. Following the death of President Few in October, 1940, Dr. Robert Lee Flowers was elected as his successor on January 29, 1941.

Dr. Edmund Davison Soper was dean of the Divinity School from 1926 to 1928. He was succeeded by Dr. Elbert Russell. Following the resignation of Dean Russell in 1941, Dr. Paul Neff Garber became dean on June 3, 1941.

THE DIVINITY SCHOOL

Trinity College was established by Christian men for the purpose of providing education for young men and women under distinctive Chris-

tian auspices. There has been no departure from this clearly defined aim. On the contrary, there has been ever-increasing emphasis placed upon this feature of the work of the College, especially in the provision in the curriculum for a great variety of courses on the Bible and other religious subjects.

Through the gift of James B. Duke, the Divinity School and its curriculum have been separated from the work of the Department of Religion in Trinity College. Among those for whom his gift was intended Mr. Duke placed ministers first. He felt sure that his native state of North Carolina stood in need primarily of a better educated and more efficiently trained ministry. The organization of the Divinity School of Duke University, the first of the professional schools to start its work, is the carrying out of this intention on the part of Mr. Duke. The work of the School began with the academic year 1926-27, though the formal opening exercises were not held until November 9, 1926.

The Divinity School is a member of the American Association of Theological Schools and was included in the list of accredited theological schools approved by the Association in June, 1938.

THE PURPOSE OF THE DIVINITY SCHOOL

Christian work has now expanded to the extent that it covers far more than the work of a preacher or minister. The Divinity School of Duke University purposes to offer training for those engaged in all types of Christian service. This includes missionaries, teachers of Bible and other religious subjects in the schools and colleges of the church, directors of religious education, and social workers. In the future it is planned to fit the courses more completely to the needs of these workers. Still it must be kept clear that the minister in charge of a church, who stands before the people to preach the Gospel of Christ, is the center and key to the whole problem of Christian work in the church. It is felt with strong conviction that the training of all Christian workers should be maintained on a high level. Consequently, the Divinity School is organized on a strictly graduate basis. It is sincerely hoped that the standard thus set may increasingly influence the type of men and women entering Christian work and may lead them to demand the best of themselves in the prosecution of the work of Christ among men.

RELATION OF THE DIVINITY SCHOOL TO DUKE UNIVERSITY

As one of the co-ordinate schools of Duke University, the Divinity School is in closest touch with the other schools, particularly with Trinity College and with the Graduate School of Arts and Sciences. Various privileges of Duke University are open to students of the Divinity School. Students in the School are expected to take part in the religious and social life of the University campus and to share in athletic interest and activities.

REQUIREMENTS FOR ADMISSION

Candidates for matriculation must be graduates of colleges of recognized standing. They will be admitted without examination on presentation of an official transcript of all college credits and such other credits as they may have secured. This applies to students coming from foreign countries as well as to students from institutions in the United States. They must satisfy the Faculty as to their Christian character and purpose. To this end a letter regarding a student's character and purpose from the pastor of his home church, a church official, or a faculty member in the college where he did his undergraduate work, should be presented at the time of admission. Women will be admitted on the same conditions as men. Graduates from nonaccredited institutions may be admitted on probation.

PRESEMINARY CURRICULUM

The Divinity School, in substantial agreement with the standards of the American Association of Theological Schools, recommends that prospective candidates for admission keep in mind the desirability of including the following in their undergraduate curriculum.

Two years' work in English literature and composition.

Two years in a foreign language.

One semester each in psychology, philosophy, and sociology (or economics).

One year in history.

An introduction to the natural sciences with adequate laboratory work (biology or one of the physical sciences).

Proficiency in public speaking.

PART-TIME SCHEDULES

Students who are not giving full time to their studies in the Divinity School may carry only limited schedules of classwork.

BACHELOR OF DIVINITY

REQUIREMENTS FOR GRADUATION

The requirements for the degree of Bachelor of Divinity are ninety-two semester hours, six semester hours of which shall be covered by the writing of an adequate thesis, either in a thesis seminar or under supervised thesis guidance. The course is planned to cover three years, of two semesters each. In no case will the degree of Bachelor of Divinity be conferred on a student until he has spent at least two full semesters in residence in the Divinity School, and has satisfactorily completed a minimum of twenty-four semester hours of work.

THESIS

A thesis is required of all candidates for the degree of Bachelor of Divinity. It shall be of such a character as shall evidence a knowledge of the methods of research and an ability to conduct independent investigations. It shall be written upon some topic in the major field of study. The candidate is responsible for the selection of a suitable subject, which must be approved by the professor in charge of the major field and must be filed with the Dean of the Divinity School on or before October 5 of the academic year in which it is expected that the degree will be conferred. Following the submission and approval of the subject of the thesis no changes will be permitted, except changes for the purpose of clarification or limitation of the subject. A student who does not complete his thesis within a period of three years from the date of the approval of his subject must secure a reapproval of the old subject or the approval of a new subject. The thesis shall be prepared under the supervision and guidance of the professor in charge of the major field. No student shall be allowed to write his thesis *in absentia* except with the approval of the Committee on Theses upon the recommendation of the professor in charge of the thesis. In all such cases regular reports on the progress of the thesis must be made to the professor in charge, as often as he may deem wise.

The thesis shall be between one hundred and one hundred and twenty pages in length, inclusive of introduction, conclusion, appendices, and bibliography, except in unusual cases clearly recognized as such by the Committee on Theses in approving thesis subjects. The student, the director, and the Committee on Theses shall be responsible for the selection and approval of such subjects as can be treated satisfactorily within these limits.

The thesis shall be read by a committee of three members of the Faculty of the Divinity School, consisting of the professor under whose direction the thesis has been written and two other members appointed by the Dean, one of whom shall be of a department other than that in which the thesis is written. Each candidate shall be examined orally on his thesis by the committee appointed to read it, said examination not to exceed one hour in length. The thesis must be satisfactory to a majority of the members of the Committee of Examination, including the representative of the department in which the thesis was written.

A complete, typed copy of the thesis shall be in the hands of the professor under whom the thesis is written, for correction, by April 19, and three permanently bound typewritten copies shall be presented for examination not later than May 3 of the year in which it is expected the degree will be conferred. Theses submitted after May 3 shall not be considered as fulfilling the requirements for graduation in that academic year. In the case of extensive corrections of the thesis in the course of the examination, such retyping and rebinding of the thesis as the Committee of Examination may desire shall be required.

ENGLISH BIBLE

All candidates for the degree of Bachelor of Divinity are required to pass written examinations on selected portions of the English Bible. The purpose of the examinations is to insure a good general knowledge of the Bible in English.

The examinations will be held during the second semester of the Junior year. Examinations for the academic session of 1944-45 will be held on April 18-19, 1945, and will cover the narrative portions of the English Bible.

SOCIAL ETHICS

All candidates for the degree of Bachelor of Divinity who have not completed at least five semester hours of undergraduate sociology are required to enroll for Sociology 236, Social Ethics, during the second semester of the Middle year.

ENGLISH

The ability to speak and write English correctly is a requirement for graduation. Students deficient in English will be required to enroll, without academic credit, for special tutoring in English composition.

MASTER OF RELIGIOUS EDUCATION

REQUIREMENTS FOR GRADUATION

The purpose of this degree is to provide a professional course of study for persons desiring to become educational assistants in churches, teachers of religion in public schools, or assistants in similar forms of Christian education.

Candidates for matriculation must be graduates of colleges of recognized standing.

The requirements for the degree of Master of Religious Education are thirty semester hours. The course is planned to cover one year or two semesters. In no case will the degree of Master of Religious Education be conferred unless the student has spent two full semesters in residence in the Divinity School. Approved work towards this degree in the Duke University Summer Session will be accepted in part fulfillment of the requirements for the degree.

The curriculum announced for the degree of Master of Religious Education will be carefully considered during the first years of the experiment and will be modified in the light of experience and results. It is being instituted because of the realization of the great need for trained persons in this field.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF DIVINITY

GENERAL REQUIREMENTS

Ninety-two semester hours are required for graduation. Forty-seven of these must be the following:

Old Testament	6 s.h.
New Testament	6 s.h.
Christian Doctrine	6 s.h.
Church History	6 s.h.
History of Religion and Missions	6 s.h.
Homiletics	5 s.h.
Religious Education	3 s.h.
Psychology of Religion	3 s.h.
Practical Theology	3 s.h.
Philosophy of Religion and Christian Ethics	3 s.h.
	47 s.h.

MAJORS AND THESES

Each student must select a major field in which he elects to write his thesis and in which he must take fifteen semester hours including the general requirement in that field. This choice must be made by the end of the Middle year. A student may take his major in any of the departments of the Divinity School. He may also take his major in English Bible. To major in that field, he must complete in addition to the required work in the Departments of Old Testament and New Testament six semester hours in the Department of Old Testament and six semester hours in the Department of New Testament, exclusive of language.

DISTRIBUTION OF COURSES BY YEARS

Junior Year

Old Testament	6 s.h.
New Testament	6 s.h.
Church History	6 s.h.
Homiletics	2 s.h.
The remaining twelve semester hours shall be chosen from the remaining required courses in the Departments of Practical Theology, Religious Education, History of Religion and Missions, but not more than six semester hours shall be taken in one department. Students desiring courses in Greek and Hebrew may secure a suitable rearrangement of the distribution of courses by years on approval of the Registration Committee.	12 s.h.
	32 s.h.

Middle Year

Christian Doctrine	6 s.h.
Homiletics	3 s.h.
Psychology of Religion	3 s.h.
Philosophy of Religion and Christian Ethics	3 s.h.

After all other required courses are completed, the remainder of the work of this year is elective, but not more than twelve semester hours shall be taken in one department. 15 s.h.

30 s.h.

Senior Year

In the Senior year the student must fulfill all general requirements not completed in the Junior and Middle years. The remainder of the work is elective. 30 s.h.

TABLE OF REQUIRED COURSES

OLD TESTAMENT

203-204. Introduction to the Old Testament 6 s.h.

NEW TESTAMENT

213-214. The Beginnings of Christianity 6 s.h.

CHRISTIAN DOCTRINE

321. Introduction to Theology 3 s.h.
322. Introduction to the History of Christian Thought 3 s.h.

CHURCH HISTORY

233. Church History to the Reformation 3 s.h.
234. History of the Evangelical Movement 3 s.h.

HOMILETICS

141. The Speaking Voice 2 s.h.
342. Theory and Practice of Preaching 3 s.h.

PRACTICAL THEOLOGY

352. Church Administration 3 s.h.

RELIGIOUS EDUCATION

261. The Educational Work of the Church 3 s.h.

PSYCHOLOGY OF RELIGION

371. Psychology of Religion 3 s.h.

PHILOSOPHY OF RELIGION AND CHRISTIAN ETHICS

291. Christian Ethics I 3 s.h.

HISTORY OF RELIGION AND MISSIONS

281. Living Religions of the World 3 s.h.
282. Missions 3 s.h.

REQUIREMENTS FOR THE DEGREE OF MASTER OF RELIGIOUS EDUCATION

GENERAL REQUIREMENTS

Thirty semester hours are required for graduation. Twenty-one of these must be the following:

Religious Education 6 s.h.
Practical Theology 3 s.h.
Psychology of Religion 3 s.h.
Sociology 3 s.h.

New Testament	3 s.h.
Old Testament	3 s.h.

Students who have covered in undergraduate courses the general material in the required courses will not repeat these courses, but will enroll for advanced courses in those fields of study.

ELECTIVES

Nine semester hours are elective, to be selected in consultation with the Dean and the Registration Committee.

DISTRIBUTION OF COURSES BY SEMESTERS

First Semester

Religious Education 261. The Educational Work of the Church	3 s.h.
Sociology 299. Marriage and Family Counseling	3 s.h.
Old Testament 203. Introduction to the Old Testament	3 s.h.
Electives	6 s.h.

Second Semester

Religious Education 362. Materials and Methods of Religious Education	3 s.h.
Practical Theology 352. Church Administration	3 s.h.
Psychology of Religion 372. Genetic Psychology of Religion	3 s.h.
New Testament 214. The Beginnings of Christianity	3 s.h.
Electives	3 s.h.

COURSES OF INSTRUCTION*

OLD TESTAMENT

201-202. **First Hebrew.**—The principles and structure of the Hebrew language with translation of selected Old Testament narratives. M.W.F. at 10:10. 6 s.h. ASSOCIATE PROFESSOR STINESPRING

203-204. **Introduction to the Old Testament.**—The origin, literary forms, and contents of the books of the Old Testament in their geographical and historical setting. T.Th.S. at 9:10. 6 s.h.
PROFESSOR RUSSELL AND ASSOCIATE PROFESSOR STINESPRING

205-206. **Elementary Arabic.**—No prerequisite, but one year of Hebrew recommended as preparation. Hours to be arranged. 6 s.h.
ASSOCIATE PROFESSOR STINESPRING

207-208. **Second Hebrew.**—Samuel or Kings the first semester and Isaiah the second. M.W.F. at 9:10. 6 s.h. ASSOCIATE PROFESSOR STINESPRING†

301. **Old Testament Theology.**—The religious and ethical teachings of the books of the Old Testament in their historical development. Prerequisite: Old Testament 203-204. M.W.F. at 10:10. 3 s.h. PROFESSOR RUSSELL

303. **The Exegesis of Selected Books of the Old Testament.**—A study of the Wisdom Literature with special emphasis on the Book of Job. Based on the English text. Prerequisite: Old Testament 203-204. M.W.F. at 11:10. 3 s.h. PROFESSOR RUSSELL

304. **Aramaic.**—A study of the Aramaic portions of the Old Testament, and selected passages from the Targums, Midrashes, and Talmuds. Hours to be arranged. 3 s.h. ASSOCIATE PROFESSOR STINESPRING

305. **Third Hebrew.**—A study of late Hebrew prose, with readings from Chronicles, Ecclesiastes, and the Mishnah. Hours to be arranged. 3 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR STINESPRING

309. **History of the Ancient Near East.**—A specialized study of the civilizations of Egypt, Palestine, Syria, and Mesopotamia from the standpoint of Biblical archaeology. T.Th.S. at 10:10. 3 s.h.
ASSOCIATE PROFESSOR STINESPRING

310. **Old Testament Prophecy.**—A study of the social teachings of the Old Testament with special reference to the prophets of the eighth century B.C. T.Th.S. at 9:10. 3 s.h. ASSOCIATE PROFESSOR STINESPRING

401-402. **Thesis Seminar.**—For students majoring in the Department of Old Testament. Hours to be arranged. (Upon the satisfactory completion of the thesis the student receives six semester hours' credit for the thesis.)
DEPARTMENTAL STAFF

* On recommendation of the professor in charge of the major field, courses offered in the Graduate School of Arts and Sciences other than those approved for credit in the Divinity School may be approved for credit in individual cases, provided no equivalent course is offered in the Divinity School; each case to be decided on its merits.

† The instructor for the academic session, 1944-45, will be Dr. Judah Goldin, Lecturer on Jewish Literature and History.

NEW TESTAMENT

211-212. **Hellenistic Greek.**—Designed for beginners to enable them to read the Greek New Testament. M.W.F. at 8:10. **6 s.h.**, provided the student takes six semester hours in New Testament Greek the following year.
ASSOCIATE PROFESSOR CLARK

213-214. **The Beginnings of Christianity.**—A survey course dealing with the background, the beginnings, and the early history of Christianity. Special attention is given to the creation of the literature of the New Testament. M.W.F. at 9:10. **6 s.h.**
PROFESSOR BRANSCOMB AND ASSOCIATE PROFESSOR CLARK

217. **The New Testament in Greek.**—Considerable portions of the Greek text of the New Testament will be read and the principles of Hellenistic Greek studied. Prerequisite: six semester hours' study of the Greek language. M.W.F. at 9:10. **3 s.h.** PROFESSOR BRANSCOMB

218. **Galatians and I Corinthians.**—A detailed study of two of Paul's major epistles. The course will be based on the Greek text. Prerequisite: New Testament 217 or its equivalent. T.Th.S. at 9:10. **3 s.h.**
[Not offered in 1944-45] PROFESSOR BRANSCOMB

219. **Life of Paul.**—A study of Paul's life on the basis of Acts and the letters of Paul, emphasizing the permanent values in Paul's work and his contribution to the world. T.Th.S. at 11:10. **3 s.h.** PROFESSOR MYERS

220. **I Peter and the Gospel of John.**—A detailed study of two of the non-Pauline writings of the New Testament. The course will be based on the Greek text. Prerequisite: New Testament 217 or its equivalent. T.Th.S. at 9:10. **3 s.h.** PROFESSOR BRANSCOMB

311. **The Life and Teachings of Jesus.**—Prerequisite: New Testament 213-214. M.W.F. at 10:10. **3 s.h.** PROFESSOR BRANSCOMB

312. **New Testament Theology.**—The religious teachings of the books of the New Testament. Prerequisite: New Testament 213-214. M.W.F. at 10:10. **3 s.h.** PROFESSOR RUSSELL

313. **Apostolic Fathers.**—A study of the Christian development from Clement of Rome to Polycarp, with readings in the Greek text. T.Th.S. at 10:10. **3 s.h.** ASSOCIATE PROFESSOR CLARK

314. **Early Christian Apologists.**—A study of Christian apologetics in the second century, with readings in the Greek text. M.W. at 2:00. **3 s.h.**
PROFESSOR BRANSCOMB

316. **Hellenistic Religions at the Beginning of the Christian Era.**—Prerequisite: New Testament 213-214. T.Th.S. at 10:10. **3 s.h.**
ASSOCIATE PROFESSOR CLARK

318. **Text of New Testament.**—A study of the materials for the reconstruction of the text, the principles of textual criticism, and the history of the text. Practical exercises in the use of manuscripts and facsimiles will be given. Prerequisite: New Testament 213-214 and a reading knowledge of Greek. T.Th.S. at 12:10. **3 s.h.** ASSOCIATE PROFESSOR CLARK

411-412. **Thesis Seminar.**—The materials and methods for the investigation of New Testament problems, with individual research done under the direction of the members of the Department. Admission by special permission. (Upon the satisfactory completion of the thesis the student receives six semester hours' credit for the thesis.) DEPARTMENTAL STAFF

315. **Judaism at the Beginning of the Christian Era.**—A study of Judaism from the time of Ben Sirach to the writing of the Mishna. Prerequisite: New Testament 213-214. M.W. at 2:00. 3 s.h. DR. GOLDIN

320. **Rabbinic Literature.**—Critical readings in Rabbinic literature in the early centuries of the Christian era. Prerequisite: New Testament 213-214. M.W. at 2:00. 3 s.h. DR. GOLDIN

CHRISTIAN DOCTRINE

221. **Platonism and Christianity.**—An analysis of Plato's religious philosophy and a survey of its continuing influence in Hellenistic and Christian thought. Prerequisite: six semester hours in philosophy or its equivalent (Christian Doctrine 321). M.W.F. at 10:10. 3 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR OUTLER

222. **Theology and Philosophy in the Nineteenth Century.**—A study of Protestant thought from Schleiermacher to Troeltsch, with special attention to the reciprocal relations between theology and metaphysics. Prerequisite: six semester hours in philosophy or its equivalent (Christian Doctrine 321). M.W.F. at 10:10. 3 s.h. ASSOCIATE PROFESSOR OUTLER
[Not offered in 1944-45]

321. **Introduction to Theology.**—An examination of types of theological method and an indication of some of the results obtained through a resort to observation and experience in theological investigation. T.Th. at 2:00. 3 s.h.
PROFESSOR ROWE

322. **Introduction to the History of Christian Thought.**—A rapid survey of the main problems, thinkers, and epochs in the theological development of Christianity from its beginnings to the end of the nineteenth century. T.Th. at 2:00. 3 s.h. ASSOCIATE PROFESSOR OUTLER

323. **The Christian Conception of the Church.**—A historical survey of the ways in which the Christian tradition has interpreted the idea of the church, followed by a critical analysis of the theological implications of such contemporary problems as church and state, church and culture, and the ecumenical movement. Prerequisite: Christian Doctrine 321. T.Th.S. at 9:10. 3 s.h. ASSOCIATE PROFESSOR OUTLER
[Not offered in 1944-45]

324. **The Content of Christian Doctrine.**—A comprehensive survey of the doctrines of Christianity as presented systematically in the works of some recent theologians. Prerequisite: Christian Doctrine 321. M.W.F. at 10:10. 3 s.h. PROFESSOR ROWE

325. **Soteriology.**—A study of the Christian doctrine of salvation and a comparison of the various ways by which the saving power of God is understood to take effect in personal and social life. Prerequisite: Christian Doctrine 321. M.W.F. at 11:10. 3 s.h. PROFESSOR ROWE

326. **Eschatology.**—A study of "the last things" in the light of the Christian hope for the individual and for society with special consideration of the Christian doctrine of immortality. Prerequisite: Christian Doctrine 321. M.W.F. at 11:10. 3 s.h. PROFESSOR ROWE

327. **Arminian Theology.**—A study of Arminianism in the religious thought of England and America with special reference to the system of doctrine contained in the theological writings and doctrinal standards of Methodism. Prerequisite: Christian Doctrine 321. M.W.F. at 12:10. 3 s.h.
PROFESSOR ROWE

328. **Current Theology.**—A survey of the fields of current theology with special attention given to the most significant and influential movements of reconstruction and reaction in contemporary Christianity. Prerequisite: Christian Doctrine 321. M.W.F. at 12:10. 3 s.h. PROFESSOR ROWE

329. **Seminar in Historical Theology.**—Selected problems in the history of Christian thought, with special reference to the relation between theology and philosophy. M. at 7:30 P.M. 2 s.h. ASSOCIATE PROFESSOR OUTLER

399. **Seminar in Theology and Ethics.**—Readings and critical analysis of the theological and ethical thought of the chief figures of the nineteenth century, including both European and American thinkers. Prerequisites: Christian Doctrine 322 and Philosophy of Religion and Christian Ethics 291. T. at 3:30. 2 s.h. PROFESSOR SMITH AND ASSOCIATE PROFESSOR OUTLER
[Not offered in 1944-45]

423. **History of Christian Thought I.**—A survey of theology and philosophy in the development of the patristic and medieval church. Special attention is given to the writings of the most influential thinkers and to the official pronouncements of the church. Prerequisite: Christian Doctrine 321-322. M.W.F. at 10:10. 3 s.h. ASSOCIATE PROFESSOR OUTLER

424. **History of Christian Thought II.**—A survey of theological thought in the development of Protestant Christianity and Roman Catholicism. Special attention is given to problems of theological method and the influence of critical and speculative thought in science and philosophy. Prerequisite: Christian Doctrine 321-322. M.W.F. at 10:10. 3 s.h. ASSOCIATE PROFESSOR OUTLER

425. **Seminar in Contemporary Theology.**—Critical readings and discussion of the writings of six major contemporary theologians. Prerequisite: Christian Doctrine 321-322. T. at 3:30. 2 s.h.
PROFESSOR ROWE AND ASSOCIATE PROFESSOR OUTLER

427-428. **Thesis Seminar.**—A seminar in thesis guidance. For students majoring in the Department of Christian Doctrine. Hours to be arranged. (Upon the satisfactory completion of the thesis the student receives six semester hours' credit for the thesis.) DEPARTMENTAL STAFF

CHURCH HISTORY

233. **Church History to the Reformation.**—A survey of the growth of the Christian Church from the Apostolic Age to the Reformation. M.W.F. at 11:10. 3 s.h. ASSOCIATE PROFESSOR PETRY

234. **History of the Evangelical Movement.**—Beginning with the Lutheran Reformation, this course traces the rise, growth, influence, and history to 1800 of the Calvinistic, Anglican, Reformed, Quaker, Baptist, and Methodist movements. M.W.F. at 11:10. 3 s.h. PROFESSOR GARBER

331. **The Social Message of the Early and Medieval Church.**—A study of the social teachings of the Christian Church prior to the Protestant Reformation, stressing the contributions of Christianity to social progress. Prerequisite: Church History 233-234. T.Th.S. at 10:10. 3 s.h.
ASSOCIATE PROFESSOR PETRY

332. **The Medieval Church.**—Outstanding characteristics of the Medieval Church, emphasizing theory, polity, institutions, sacraments, and worship. Prerequisite: Church History 233-234. T.Th.S. at 10:10. 3 s.h.
ASSOCIATE PROFESSOR PETRY

333. A History of Christian Renunciation in the Middle Ages.—A study of the renunciatory ideal and of spiritual practices with special reference to Benedictines, Franciscans, Lowland mystics, and leading seculars. Prerequisite: Church History 233-234. M.W.F. at 12:10. 3 s.h.
ASSOCIATE PROFESSOR PETRY

334. Church Reformers and Christian Unity.—The work of such reformers as Marsilius of Padua, William of Ockham, John Gerson, Pierre d'Ailly and Nicholas of Cusa in relation to ecclesiastical schism and the search for Christian unity through representative councils. T.Th.S. at 11:10. 3 s.h.
ASSOCIATE PROFESSOR PETRY

335-336. The Church in America.—The church as a factor in the social, economic, and political life of America. Prerequisite: Church History 233-234. T.Th.S. at 10:10. 6 s.h. PROFESSOR GARBER
[Not offered in 1944-45]

337. Religion in the Southern States since the Civil War.—A study of the religious life of the Southern people since 1865. Prerequisite: Church History 233-234. 3 s.h. PROFESSOR GARBER
[Not offered in 1944-45]

339. Methodism.—A study of the beginnings and growth of the Methodist societies in England, of early Methodism in America, and of the development of the several branches of the Methodist Church in America. Prerequisite: Church History 233-234. T.Th.S. at 10:10. 3 s.h. PROFESSOR GARBER
[Not offered in 1944-45]

431. Modern Religious Leaders.—A study of outstanding individuals who have influenced the thought and program of the modern church. The life, work, and contributions of about twenty representative Christian leaders. Prerequisite: Church History 233-234. T.Th.S. at 11:10. 3 s.h.
PROFESSOR GARBER

432. Religious Leaders of the Early and Medieval Church.—Among those to be studied are Justin Martyr, Origen, Cyprian, Athanasius, Jerome, Augustine, Benedict of Nursia, Gregory VII, Abelard, Innocent III, Francis of Assisi, Thomas Aquinas, and John Wyclif. Prerequisite: Church History 233-234. M.W.F. at 12:10. 3 s.h. ASSOCIATE PROFESSOR PETRY

437-438. Thesis Seminar.—Principles and practice of research. (Upon the satisfactory completion of the thesis the student receives six semester hours' credit for the thesis.) DEPARTMENTAL STAFF

HOMILETICS

342. Theory and Practice of Preaching.—Investigation of practical problems in preaching to determine causes of success and failure. Practice preaching. M.W.F. at 12:10. 3 s.h. PROFESSOR ————

343. Sermon Construction.—Problems in sermon construction. Analysis of selected sermons. Practice preaching. T.Th.S. at 9:10. 3 s.h.
PROFESSOR ————

344. Doctrinal Preaching.—A study of doctrinal preaching in an age of changing intellectual and social perspectives. Prerequisite: Hom. 342. T.Th.S. at 10:10. 3 s.h. PROFESSOR ————

346. Major Types of Preaching.—An examination of the several types of preaching with special attention to the expository, ethical, and biographical types. Prerequisite: Hom. 342. T.Th.S. at 11:10. 3 s.h.
PROFESSOR ————

347. **History of Preaching.**—A study of significant periods and their representative preachers, to determine their value for modern preaching. Prerequisite: Hom. 342. T.Th.S. at 12:10. 3 s.h. PROFESSOR MYERS

348. **Materials of Preaching.**—A critical evaluation of selected portions of the Bible and of some non-Biblical materials for constructive modern preaching. Prerequisite: Hom. 342. T.Th.S. at 12:10. 3 s.h.
PROFESSOR MYERS

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141. **The Speaking Voice.**—This course gives training in placement, pitch, range, and diction for use in professional work and in daily conversation. M.W.F. at 10:10. 2 s.h. ASSISTANT PROFESSOR WEST

PRACTICAL THEOLOGY

253. **Field Work I.**—This course is required of all students who are engaged in any type of field work, except summer field work under the Duke Endowment plan. It is designed to help the students with their personal and parish problems and to develop techniques for successful service. T. 3:00-4:40. 1 s.h. PROFESSOR ORMOND

254. **Field Work II.**—A required course for all students who work under the Duke Endowment plan. The purpose of the course is to emphasize the training values of field work. T. 3:00-4:40. 1 s.h. PROFESSOR ORMOND

352. **Church Administration.**—The minister's qualifications for church administration; the minister's service in managing the church organization and supervising the program. T.Th.S. at 12:10. 3 s.h. PROFESSOR ORMOND

353. **The Rural Church.**—A study of rural conditions with special emphasis upon the church as a community institution. M.W.F. at 12:10. 3 s.h.
PROFESSOR ORMOND

354. **Parish Evangelism.**—A study of effective modern methods of evangelism in the local church. M.W.F. at 12:10. 3 s.h. PROFESSOR ORMOND

355. **Public Worship and Ordinances of the Church.**—The principles and practice of public worship; attention to the use of the ritual in the church. M.W.F. at 10:10. 3 s.h. PROFESSOR ORMOND
[Not offered in 1944-45]

356. **The Urban Church.**—A study of the function of the church in towns and cities with special attention to the church in industrial centers. M.W.F. at 9:10. 3 s.h. PROFESSOR ORMOND

358. **Church Music.**—A study of hymnology, song leading, and problems of the modern church choir. M.W.F. at 2:00. 3 s.h. MR. BARNES

457-458. **Thesis Seminar.**—A seminar in thesis guidance. For students majoring in the Department of Practical Theology. Hours to be arranged. (Upon the satisfactory completion of the thesis the student receives six semester hours' credit for the thesis.) PROFESSOR ORMOND

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*215. **Rural Sociology.**—Identical with Sociology 215. M.W.F. at 9:30. 3 s.h. ASSOCIATE PROFESSOR THOMPSON

* Course offered in the Graduate School of Arts and Sciences which is credited toward the degree of Bachelor of Divinity.

RELIGIOUS EDUCATION

261. The Educational Work of the Church.—A consideration of the total task of the church from an educational viewpoint. Attention will be given to such fundamental aspects as principles and objectives of the educative process, curriculum, supervision, worship, and leadership education and guidance. T.Th.S. at 8:10. **3 s.h.** PROFESSOR SPENCE

263. The Principles and Theory of Religious Education.—The aims, principles, and theory of religious education from a Christian point of view; a study of the processes involved in the development of moral and religious personality and the fundamental concepts underlying the theory of Christian education. T.Th.S. at 10:10. **3 s.h.** PROFESSOR SPENCE

362. Materials and Methods of Religious Education.—A study of the various concepts of the curriculum with an investigation of the value and use of current curricula. An examination of the objectives and principles of the teaching process and the major types of educational procedure. T.Th.S. at 8:10. **3 s.h.** PROFESSOR SPENCE

363. Worship and Drama.—Worship in its bearings upon the educational functions of the Christian religion. The use of drama in religious education with the creation of dramatic programs of worship and drama writing and production. M.W.F. at 9:10. **3 s.h.** PROFESSOR SPENCE

365. The History of Religious Education.—A survey of the contributions to religious education made by leading educational systems; special emphasis is placed upon the development of religious education in America and the relation of religious education and public education. M.W.F. at 9:10. **3 s.h.** PROFESSOR SPENCE

366. The Educational and Spiritual Values of Great Literature.—A study of Biblical and other great literature from the standpoint of their teaching values; analysis of material with reference to needs, interests, and capacities of various age groups. Correlation of Biblical and extra-Biblical material with a view to its adaptability for teaching and preaching purposes. M.W.F. at 9:10. **3 s.h.** PROFESSOR SPENCE

461-462. Thesis Seminar.—A seminar in thesis guidance. For students majoring in the Department of Religious Education. Hours to be arranged. (Upon the satisfactory completion of the thesis the student receives six semester hours' credit for the thesis.) PROFESSOR SPENCE

PSYCHOLOGY OF RELIGION

371. Psychology of Religion.—An analysis of the major factors in religious experience. T.Th.S. at 9:10. **3 s.h.** PROFESSOR HICKMAN

372. Genetic Psychology of Religion.—A study of the religious experience of childhood and youth. T.Th.S. at 9:10. **3 s.h.** PROFESSOOR HICKMAN

373. Psychology of Preaching.—A psychological study of the preaching motive, the relation of the preacher to his congregation, and the relation of the preacher to society in general. M.W.F. at 11:10. **3 s.h.** PROFESSOR HICKMAN

374. Pastoral Psychology.—Study of basic psychological and psychiatric principles bearing upon cases necessarily dealt with in pastoral work. M.W.F. at 11:10. **3 s.h.** PROFESSOR HICKMAN

375-376. Seminar in Mysticism.—A study of the mystical element in religious experience. Th. at 3:00-5:00. **3 s.h.** PROFESSOR HICKMAN
[Not offered in 1944-45]

*206. **Social Psychology.**—Open to students in the Divinity School on consent of instructor. M.W.F. at 11:30. 3 s.h. ASSOCIATE PROFESSOR ADAMS

*223. **Abnormal Psychology.**—Open to students in the Divinity School on consent of instructor. M.W.F. at 2:00. 3 s.h. PROFESSOR LUNDHOLM

*228. **Psychology of Belief.**—Open to students in the Divinity School on consent of instructor. T.Th. at 10:30. 2 s.h. PROFESSOR LUNDHOLM

†459. **Introduction to Psychiatry.**—M.W. at 4:00. 2 s.h. PROFESSOR LYMAN

HISTORY OF RELIGION AND MISSIONS

281. **Living Religions of the World.**—A survey of the religious systems of India, China, and Japan, followed by a study of Judaism, Mohammedanism, and Christianity, the object being to trace the historical development of each religion. T.Th.S. at 10:10. 3 s.h. PROFESSOR CANNON

282. **Missions.**—The history and philosophy of the missionary enterprise. T.Th.S. at 10:10. 3 s.h. PROFESSOR CANNON

283. **The Religions of the Far East.**—A study of the religious systems of China and Japan. T.Th.S. at 9:10. 3 s.h. PROFESSOR CANNON
[Not offered in 1944-45]

284. **Comparative Religion I.**—The ideas of God, sin, and salvation in the religions of the world. Prerequisite: 281. M.W.F. at 9:10. 3 s.h. PROFESSOR CANNON

286. **Comparative Religion II.**—Ideas of the future life and ethical and social ideals in the religions of the world. Prerequisite: 281. M.W.F. at 9:10. 3 s.h. PROFESSOR CANNON
[Not offered in 1944-45]

287. **Mohammedanism.**—The life of Mohammed and the religion of Islam, special attention being given to the Koran and its teachings. The aim is to interpret Mohammedanism as a force today. Prerequisite: 281. M.W.F. at 9:10. 3 s.h. PROFESSOR CANNON

288. **The Religions of India.**—A study of present-day religious movements in India, with special reference to Hinduism. T.Th.S. at 9:10. 3 s.h.
[Not offered in 1944-45] PROFESSOR CANNON

289. **Buddhism.**—India at the rise of Buddhism. Life of the Buddha and the teachings of early Buddhism. Development into the Hinayana and Mahayana schools, its spread and present condition in southern and eastern Asia. Prerequisite: 281. M.W.F. at 9:10. 3 s.h. PROFESSOR CANNON
[Not offered in 1944-45]

481-482. **Thesis Seminar.**—Problems of research in History of Religion and Missions. Open to advanced students on approval of the instructor. Prerequisite: six semester hours in the department. Hours to be arranged. (Upon the satisfactory completion of the thesis the student receives six semester hours' credit for the thesis.) PROFESSOR CANNON

PHILOSOPHY OF RELIGION AND CHRISTIAN ETHICS

291. **Christian Ethics I.**—An historical and systematic study of Christian conceptions of the moral life. T.Th.S. at 12:10. 3 s.h. PROFESSOR SMITH

* Course offered in the Graduate School of Arts and Sciences which is credited toward the degree of Bachelor of Divinity.
† Course offered in the School of Medicine which is credited toward the degree of Bachelor of Divinity.

292. **Christian Ethics II.**—A critical consideration of selected contemporary social problems from the viewpoint of the Christian ethic. T.Th.S. at 12:10. 3 s.h. PROFESSOR SMITH

393. **Religious Thought in Colonial America.**—A survey of the main developments in colonial religious thought, including Christian ethics. M.W.F. at 11:10. 3 s.h. PROFESSOR SMITH

394. **Religious Thought in Modern America.**—A survey of the main currents in later American religious and ethical thought, with special attention to liberal Protestantism. M.W.F. at 11:10. 3 s.h. PROFESSOR SMITH

397. **Seminar in American Religious Thought.**—Selected problems, chiefly of the nineteenth century. T. at 3:30. 2 s.h. PROFESSOR SMITH

398. **Seminar in Christian Ethics.**—A critical study of selected problems. T. at 3:30. 2 s.h. PROFESSOR SMITH

399. **Seminar in Theology and Ethics.**—Readings and critical analysis of the theological and ethical thought of the main figures of the nineteenth century, including both European and American thinkers. Prerequisites: Christian Doctrine 322 and Philosophy of Religion and Christian Ethics 291. T. at 3:30. 2 s.h. PROFESSOR SMITH AND ASSOCIATE PROFESSOR OUTLER
[Not offered in 1944-45]

491-492. **Thesis Seminar.**—A seminar in thesis guidance for students majoring in the department. (Upon satisfactory completion of the thesis the student receives six semester hours' credit for the thesis.) PROFESSOR SMITH

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*203. **The Philosophy of Conduct.**—A critical study of the fundamental problems of ethics. M.W.F. at 9:10. 3 s.h. ASSOCIATE PROFESSOR MORGAN

*209. **Philosophy of Religion I: Philosophical Introduction.**—Religion viewed with the standpoint of consideration of deity. T.Th. at 2:15-3:30. 3 s.h. PROFESSOR WIDGERY
[Not offered in 1944-45]

*210. **Philosophy of Religion II: Philosophical Introduction.**—Religion viewed from the standpoint of the nature of man, his origin and destiny. T.Th. at 2:15-3:30. 3 s.h. PROFESSOR WIDGERY
[Not offered in 1944-45]

*226. **The History of Ethics.**—Theories of morality from Socrates to the present time. M.W.F. at 9:10. 3 s.h. ASSOCIATE PROFESSOR MORGAN

SOCIOLOGY

At least five semester hours of undergraduate sociology are prerequisite to all courses of the Department, except 236, 238 and 299. Students who have had inadequate undergraduate training in sociology and who wish to pursue further work in the Department are advised to consult with the chairman of the Department of Sociology regarding the removal of their deficiency as soon as possible after matriculation in the Divinity School.

* Course offered in the Graduate School of Arts and Sciences which is credited toward the degree of Bachelor of Divinity.

236. **Social Ethics.**—A study of the sociological fundamentals underlying social ethics, including the controversy between materialistic and idealistic social thinkers, the nature of personalities and of social organizations, the nature of social values, types of social interaction and their effects upon general social values, underlying principles and facts of social change, and the bearings of all these upon certain social problems. M.W. at 2:30-4:00. **3 s.h.**
PROFESSOR HART

238. **Religion and the World Crisis.**—An inquiry into the bearings of religion upon past social evolution and upon the possible future development of civilization. T.Th.S. at 11:10. **3 s.h.** PROFESSOR HART

299. **Marriage and Family Counseling.**—A survey of practical problems in the light of social, psychological, and spiritual fundamentals, for persons preparing for professional work. M.W. 3:00-4:15. **3 s.h.** PROFESSOR HART

421-422. **Thesis Seminar.**—A seminar in thesis guidance for students majoring in sociology. Hours to be arranged. (Upon the satisfactory completion of the thesis the student receives six semester hours' credit for the thesis.) PROFESSOR HART

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*205. **Social Pathology.**—A study of the causes, extent, significance, and constructive treatment of the principal forms of pathology in modern society; poverty, physical defectiveness, malnutrition, mental deficiency, mental disease, undirected leisure activities, and unstandardized commercial recreation, alcoholism, prostitution, vagrancy, and delinquency. T.Th.S. at 8:30. **3 s.h.**
PROFESSOR JENSEN

*206. **Criminology.**—A study of the original tendencies of man and the problem of socializing these tendencies; the relations of physical and mental defectiveness and untoward influences in the home and neighborhood to crime; the development of criminological theory and procedure, emphasizing penal and reform methods, and especially modern methods of social treatment and prevention of crime. T.Th.S. at 8:30. **3 s.h.** PROFESSOR JENSEN

*212. **Child Welfare.**—A study of heredity and environment as factors in personality development; infant conservation; welfare responsibilities of the school, emphasizing the physical and mental well-being of the child, play, compulsory and industrial education; child labor, diagnosis and treatment of delinquency; care of the dependent and neglected child; child-caring agencies, public and private; and a community program of child welfare. **3 s.h.**
PROFESSOR JENSEN

*215. **Rural Sociology.**—A study of the societies developed by people who settle the land and exploit it for a livelihood. The institutions peculiarly rural are the family farm, the peasant village, the ranch, and the plantation. In this course special attention is given to the plantation and the rural problems of the South. M.W.F. at 9:30. **3 s.h.** ASSOCIATE PROFESSOR THOMPSON

*216. **Urban Sociology.**—This course studies the function of the city in the larger community which it nucleates both as market and as industrial center. More detailed attention, however, is given to the inner life and problems of the city. M.W.F. at 9:30. **3 s.h.** ASSOCIATE PROFESSOR THOMPSON

*217. **Race and Culture.**—An analytical study of racial and cultural relations and problems of the Indian, the Negro, and other minority groups in historical and contemporary situations. M.W.F. at 10:30. **3 s.h.**
ASSOCIATE PROFESSOR THOMPSON

* Course offered in the Graduate School of Arts and Sciences which is credited toward the degree of Bachelor of Divinity.

*319. **Principles of Sociology.**—A critical study of sociological theory. The sociological theories of recent writers will be critically examined with a view to laying the foundation for a constructive theory of the social life in modern biology and psychology. T.Th.S. at 8:30. **3 s.h.**

Professor Jensen

*320. **History of Social Philosophy.**—Lectures on the development of social thought from Aristotle to the present; the social philosophies of Plato, Aristotle, St. Augustine, Thomas Aquinas, Machiavelli, Bodin, Hobbes, Locke, Vico, Montesquieu, Rousseau, Condorcet, and the sociological systems of Comte, Spencer, Shaeffle, Lilienfeldt, Gumplowicz, Ratzenhofer, and Ward, will, among others, be considered. T.Th.S. at 8:30. **3 s.h.**

Professor Jensen

* Course offered in the Graduate School of Arts and Sciences which is credited toward the degree of Bachelor of Divinity.

GENERAL INFORMATION

FEES

The tuition charge of $100.00 per semester is remitted to students matriculated in the Divinity School. Therefore they are expected to render from time to time service which shall not interfere with their work in the Divinity School.

Each student is assessed per semester as follows:

Matriculation Fee	$25.00
Library Fee	5.00
Athletic Fee	5.00
Publication Fee (optional)	2.50
Hospital Fee	5.00
Damage Fee	1.00

Each student is assessed, in the last semester before a degree is conferred, a Commencement Fee of $3.00 and a Diploma Fee of $5.00. The latter fee is refunded if the diploma is not awarded.

LATE REGISTRATION

Students matriculating in either semester at a date later than that prescribed in the catalogue shall pay to the Treasurer of the University a penalty of $5.00.

ROOMS

All rooms in the dormitories are provided with heat, water, electric light, and essential furniture. Each student furnishes his own blankets, sheets, pillow slips, towels, and pillows. Students must furnish their own electric lamps, which can be purchased from the University Store.

Rooms for a given year may be engaged at the office of the Director in the Business Division at any time before May 15 of the preceding year. Every student who wishes to retain his room for the succeeding year must notify the office of the Director in the Business Division on or before May 15. All rooms which have not been signed for on or before May 15 will be considered vacant for the succeeding year. A reservation is canceled, and the University is free to rent the room to other students, unless a deposit of $25.00 for each proposed occupant, in part payment of the rent, is made by August 1. Further information concerning the rental of rooms may be secured from the Dean of the Divinity School.

BOARDING HALLS

The University dining hall in the University Union has accommodations for all the resident men students. It is the policy of the University to furnish board to the students at actual cost. The Union is the logical center of student activities, and all male students are advised to board in its supervised halls.

STUDENT AID

Scholarships are available for students, the terms of which may be ascertained by correspondence with the Dean of the Divinity School. Aid is also given in securing positions in churches. Students who need financial help may be assured that the administration will do all in its power to give the necessary assistance.

N. EDWARD EDGERTON SCHOLARSHIP FUND

In 1939 Mr. N. Edward Edgerton, of Raleigh, North Carolina, an alumnus of Duke University of 1921 and a former president of the Duke University Alumni Association, established the N. Edward Edgerton Scholarship Fund in the Divinity School. The purpose of the Edgerton Fund as specified by the donor is a "scholarship or scholarships to be awarded only to students who are candidates for the B.D. degree in the Divinity School."

THE LIBRARY

The Divinity School has its own library, conveniently housed in the Divinity School Building. The Library, which contains materials dealing with the subject of religion, already numbers over thirty thousand volumes. It has been carefully selected and is the equivalent in working efficiency of many libraries which are much larger. It is already rich in complete files of the more important journals and periodicals, in sets containing source materials for the study of the history of religion and missions, in facsimiles of the more important manuscripts of the New Testament, and in source materials in the field of American church history. The Library is being rapidly expanded. One of the outstanding possessions of the Library is a magnificent Greek manuscript of the thirteenth or fourteenth century containing the entire text of the New Testament.

Besides this special library, students of the Divinity School have the use of the General Library of the University, the Library of the School of Law, and the Library of the School of Medicine. All these libraries are located near the Divinity School Building.

MASTER OF ARTS AND DOCTOR OF PHILOSOPHY DEGREES IN RELIGION

Graduate study in religion leading to the degrees of Master of Arts and Doctor of Philosophy may be pursued under the administrative direction of the Graduate School of Arts and Sciences.

Work toward these advanced degrees is available in three general fields: (1) Biblical Studies (Professor Branscomb, Adviser); (2) Studies in Church History (Professor Garber, Adviser); and (3) Studies in Christian Theology and Ethics (Professor Smith, Adviser). Courses approved by the Graduate Council for work in these fields are listed in the *Bulletin of the Graduate School.*

Students desiring additional graduate study for a degree beyond that of Bachelor of Divinity should apply to Calvin B. Hoover, Dean of the Graduate School of Arts and Sciences.

FACILITIES FOR ADVANCED STUDY IN THE AMERICAN SCHOOLS OF ORIENTAL RESEARCH

The Divinity School of Duke University is one of the supporting members of the American Schools of Oriental Research. Accordingly, students in the Divinity School have the privilege of attending the American School in Jerusalem or the one in Bagdad without charge for tuition. They may also compete for the financial aids which are offered annually by the Schools. These consist of four fellowships, the stipends depending upon available funds.

RELIGIOUS LIFE

The students of the Divinity School are expected to attend the regular University Chapel services which are held on Thursday of each week. Special chapel services for the Divinity School are held each Tuesday.

In this, as in other features of the University life, the students of the Divinity School are urged to identify themselves with the life of the whole student group.

DATE OF REGISTRATION

Classwork in the Divinity School for the academic session of 1944-45 will begin on Monday, September 25, 1944. The registration of students in the Divinity School will be held on Saturday, September 23, 1944.

ADDITIONAL INFORMATION

Requests for information not contained in this bulletin should be addressed to the Dean of the Divinity School, Duke University, Durham, North Carolina.

Announcement

COURSES IN RELIGION

DUKE UNIVERSITY SUMMER SESSION
1944

DURHAM, NORTH CAROLINA

First Term: May 30-June 20
Second Term: June 20-July 31
Third Term: August 1-August 21

ADMINISTRATIVE OFFICERS

ROBERT LEE FLOWERS, A.M., LL.D.
President of Duke University

HOLLAND HOLTON, A.B., J.D.
Director of the Summer Session and Chairman of the University Committee on the Summer Session

ADVISORY COMMITTEE ON COURSES IN RELIGION

PAUL NEFF GARBER, A.B., A.M., Ph.D., *Chairman*
Dean of the Divinity School

HILRIE SHELTON SMITH, A.B., Ph.D., D.D., Litt.D.
Director of Graduate Studies in Religion

HIRAM EARL MYERS, A.B., S.T.B., S.T.M.
Director of Undergraduate Studies in Religion

FACULTY

CANNON, JAMES, III; A.B., Duke; A.M., Princeton; Th.B., Th.M., Princeton Theological Seminary; D.D., Birmingham-Southern College; Religion (Duke University).

CLARK, KENNETH WILLIS; A.B., Yale; B.D., Rochester; Ph.D., University of Chicago; Religion (Duke University).

MYERS, HIRAM EARL; A.B., Duke; S.T.B., S.T.M., Boston University School of Theology; Religion (Duke University).

OUTLER, ALBERT COOK; A.B., Wofford College; B.D., Emory University; Ph.D., Yale; Religion (Duke University).

PETRY, RAY C.; A.B., Manchester College; A.M., Ph.D., University of Chicago; Religion (Duke University).

COURSES IN RELIGION

DUKE UNIVERSITY SUMMER SESSION

Courses in religion and related fields will be offered in the Duke University Summer Session of 1944. These courses are subject to all the regulations of the Duke University Summer Session as published in the *Summer Session Bulletin*. The undergraduate credits secured will count on the Bachelor of Arts degree. Graduate credits will count on the Bachelor of Divinity, Master of Religious Education, Master of Arts, and Doctor of Philosophy degrees. These credits may, of course, be transferred to other colleges, universities, and theological schools in the same way that such transfer of credit is usually made.

CALENDAR AND REGISTRATION

The first term will open May 30 and close June 20. The second term will open June 20 and close July 31. The third term will open August 1 and close August 21.

For the first term, Monday, May 29, is registration day. For the second term, Monday, June 19, is registration day. For the third term, Monday, July 31, is registration day.

FEES AND EXPENSES

Every student pays a registration fee of $10.00 for each three weeks, or $20.00 for each term of six weeks. Tuition is $4.00 for each semester hour. Ministers and theological students are exempt from tuition fees for as many as four terms of six weeks in the period of six years. After their fourth term they pay regular tuition charges.

ROOM AND BOARD

Most of the rooms in the dormitories are double rooms. The rent is $12.50 per occupant for six weeks in the men's dormitories and $13.50 per occupant in the women's dormitories. Single rooms are available at $17.50 for the term of six weeks for men and $18.50 for women. There is no dormitory for married men who wish their wives to come with them and no accommodations whatever for children on the campus. The Divinity School and Summer Session, however, are glad to assist students in locating accommodations off the campus. Occupants of the University rooms furnish their own bed linen, blankets, pillows, and towels.

Occupants of the University dormitories by boarding in the regular dining room of the University receive a discount of $1.00 from the regular charge of $45.00 for board for six weeks.

ADVANCED DEGREES

The degrees of Bachelor of Divinity and Master of Religious Education are offered in the Divinity School.

The degrees offered in the Graduate School of Arts and Sciences are Master of Arts and Doctor of Philosophy.

Graduate study in religion leading to the degrees of Master of Arts and Doctor of Philosophy may be pursued in three fields: (1) Biblical Studies, (2) Studies in Church History, and (3) Studies in Christian Theology and Ethics.

Candidates for advanced degrees must be graduates of colleges of recognized standing.

Upon request the Director of the Summer Session or the Dean of the Divinity School will furnish bulletins containing a detailed description of the academic requirements for the degrees of Bachelor of Divinity, Master of Religious Education, Master of Arts, and Doctor of Philosophy.

CREDITS

Courses numbered from 100-199 are for college juniors and seniors. Courses numbered from 200-299 are for college seniors, students in the Divinity School, and graduate students; courses numbered from 300 up are for Divinity School and graduate students. The maximum credit for a term of six weeks is six semester hours; for three weeks, three semester hours.

RELIGIOUS SERVICES

University religious services are held each Sunday morning at eleven o'clock, to which all students are invited. In the summer of 1943 the student choir, a voluntary organization, enrolled over one hundred fifty students. A series of organ recitals is also given Sunday afternoon and at other times each week in the University Chapel.

COURSES OF INSTRUCTION*

(Note. In the description of courses the following abbreviations occur: *A* means that the course comes the first eighty-five minutes daily, beginning at 8:00; *B* means that the course comes at the eighty-five minute period beginning at 9:40; *C* means that the course comes at the eighty-five minute period beginning at 11:20.)

RELIGION

S114. The Life and Teachings of Jesus.—This course considers the period in which Jesus lived, the record of his life, and the meaning of his teachings as recorded in the Synoptic Gospels. A. **3 s.h.** Mr. Myers
[Offered during term, June 20-July 31]

S181. The Nature and Early Development of Religion.—Introduction to the early history of religion, the beliefs and practices of the more primitive peoples, and the religious life of the ancient world. B. **3 s.h.** Mr. Cannon
[Offered during term, June 20-July 31]

S319. The Life and Letters of Paul.—A study of the most influential leader in the early formative days of Christianity. The aim is to examine his personal and religious experience, the problems he encountered, the solution he offered, and the form of belief and practice he advocated. B. C. **3 s.h.**
[Offered three weeks, May 30-June 19] Mr. Clark

S320. Apocalyptic Literature.—Discussion of early Christian apocalyptic writings, with special attention to the Apocalypse of John. The origin, development, and significance of the apocalyptic idea in the Christian faith. B. C. **3 s.h.** Mr. Clark
[Offered three weeks, August 1-August 21]

S323. The Christian Conception of the Church.—A historical survey of the ways in which the Christian tradition has interpreted the idea of the church, followed by a critical analysis of the theological implications of such contemporary problems as church and state, church and culture, and the ecumenical movement. C. **3 s.h.** Mr. Outler
[Offered during term, June 20-July 31]

S324. The Content of Christian Doctrine.—A synopsis and critical discussion of the cardinal problems involved in a systematic Christian theology. A. **3 s.h.** Mr. Outler
[Offered during term, June 20-July 31]

S333. Mysticism and Devotion in Christian History.—A study of the rununciatory ideal and of spiritual practices in their relation to present problems. B. **3 s.h.** Mr. Petry
[Offered during term, June 20-July 31]

S334. Church Reformers and Christian Unity.—The work of great reformers in relation to ecclesiastical schism and the search for Christian unity through representative councils. C. **3 s.h.** Mr. Petry
[Offered during term, June 20-July 31]

* The University reserves the right to withdraw any course in which fewer than ten enroll. Students interested should, therefore, apply promptly.

RELATED COURSES

Education S215. Educational and Vocational Guidance.—A. I.
MR. GWYNN

Education 304. The School as an Institution.—D. I. MR. GOLDTHORPE

Education 305. The Nature, Function, and Reorganization of the Curriculum.—A. I. MR. CARR

Eucation 317. The Psychological Principles of Education.—B. I, II.
MR. BROWNELL

Sociology 206. Criminology.—A. I.

Sociology 212. Child Welfare.—B. I.

Address application or requests for information to the DEAN OF THE DIVINITY SCHOOL, *Duke University, Durham, North Carolina, or the* DIRECTOR OF DUKE UNIVERSITY SUMMER SESSION, *Duke University, Durham, North Carolina.*

CANDIDATES FOR THE DEGREE OF BACHELOR OF DIVINITY
JUNIOR CLASS

Adamson, Malcolm Monroe A.B., Athens College, 1943.	Goodwater, Ala.
Atkeison, Gordon Rush A.B., Birmingham-Southern College, 1939.	Mobile, Ala.
Barnes, Edwin Edward A.B., Southwest Missouri State Teachers College, 1943.	Licking, Mo.
Belk, Harry Clinton A.B., Wofford College, 1943.	Lake City, S. C.
Bostick, Joseph Kent A.B., High Point College, 1944.	Raleigh, N. C.
Bowers, Daniel P. Sayler A.B., Franklin and Marshall College, 1943.	Waynesboro, Pa.
Bradshaw, Annie Eloise A.B., Randolph-Macon Woman's College, 1908; M.A., Peabody College, 1916.	Portsmouth, Va.
Bull, Robert Jehu A.B., Randolph-Macon College, 1943.	Norfolk, Va.
Cline, John Maxwell A.B., Duke University, 1943.	Durham, N. C.
Cochran, James Edgar A.B., Wofford College, 1943.	Kannapolis, N. C.
Cofer, Gilbert Francis A.B., Emory and Henry College, 1943.	Alderson, W. Va.
Crouse, Kenneth Dewey A.B., High Point College, 1943.	Lexington, N. C.
Daniel, Wilbon Harrison A.B., Lynchburg College, 1944.	Lynchburg, Va.
Dennis, Arthur Williams A.B., West Virginia Wesleyan College, 1943.	Nassawadox, Va.
Durham, Donald William A.B., Union College, 1943.	Reidsville, N. C.
Edens, Allen Cleveland, Jr. A.B., Florida Southern College, 1943.	Durham, N. C.
Edwards, John Paul A.B., Duke University, 1944.	Clinton, N. C.
Elrod, Elton Welborn A.B., Southwestern University, 1943.	Palestine, Tex.
Fortune, James Robertson B.S., North Carolina State College, 1935.	Durham, N. C.
Fowler, Francis Wiley B.S., Davidson College, 1944.	Charlotte, N. C.
Gitlin, Emmanuel Moisieyevich A.B., Texas Christian University, 1944.	Detroit, Mich.
Griffin, Johnson Linwood A.B., Elon College, 1943.	Windsor, Va.
Harper, George Arthur A.B., Birmingham-Southern College, 1943.	Birmingham, Ala.
Harrell, Leighton Ernest, Jr. A.B., University of Maryland, 1943.	Hyattsville, Md.

Hooper, Thomas LeRoy, Jr. A.B., Allegheny College, 1943.	Pittsburgh, Pa.
Hughes, Miles Preston A.B., University of Alabama, 1943.	Gadsden, Ala.
Johnson, Carl Anderson A.B., Wofford College, 1943.	Durham, N. C.
Johnson, Jesse Louis, Jr. A.B., High Point College, 1943.	Siler City, N. C.
Jones, Norwood Lee A.B., High Point College, 1944.	Clayton, N. C.
Lipe, Godfrey Frederick A.B., Wake Forest College, 1943.	Durham, N. C.
McCleskey, Walter Scott A.B., Emory University, 1942.	Waycross, Ga.
McCoy, Charles Sherwood A.B., University of North Carolina, 1943.	Laurinburg, N. C.
McRae, William Vogel A.B., Duke University, 1908.	Durham, N. C.
Madren, Weldon Thomas A.B., Elon College, 1943.	Burlington, N. C.
Oglesby, Glynn Aubrey A.B., Wofford College, 1943.	Selma, Ala.
Peery, John Franklin A.B., Southern Methodist University, 1943.	Fort Worth, Tex.
Perkins, Theodore Edison B.S., Western Carolina Teachers College, 1939.	Goldsboro, N. C.
Petteway, Warren Bernard A.B., Wofford College, 1941.	Kinston, N. C.
Pfisterer, Fred Russell A.B., Kentucky Wesleyan College, 1943.	Louisville, Ky.
Risinger, Melvin Smith A.B., West Virginia Wesleyan College, 1943.	Moundsville, W. Va.
Rowland, Ray Marion B.S., East Tennessee State College, 1943.	Jonesboro, Tenn.
Rutledge, Thomas Edgar, Jr. A.B., Trinity University, 1943.	Childress, Tex.
Sampselle, William DeVries A.B., University of Maryland, 1943.	Mt. Rainier, Md.
Smiley, Donald Gilbert A.B., Fresno State College, 1943.	Fresno, Calif.
Stanfield, Claude Edwin A.B., Florida Southern College, 1943.	Sarasota, Fla.
Swink, Ray Franklin A.B., High Point College, 1944.	Lexington, N. C.
Townsend, Harold Lee A.B., Wake Forest College, 1943.	Fayetteville, N. C.
Wells, Robert Newton A.B., Wofford College, 1943.	Manning, S. C.
White, Charles Denny A.B., High Point College, 1939.	Durham, N. C.
Wynn, Coy Wilton A.B., Louisiana College, 1941; M.A., Louisiana State University, 1942.	Sicily Island, La.

Young, Alvin Clyde — Buffalo, W. Va.
A.B., Concord College, 1943.

MIDDLE CLASS

Ausley, Paul Kenneth — Franklinville, N. C.
B.S., Florida Southern College, 1942.

Bailey, Ulysses Grant — McComas, W. Va.
A.B., Emory and Henry College, 1943.

Beal, Paul R. — Glenville, W. Va.
A.B., Morris Harvey College, 1942.

Belcher, Arnold Dwane — Hinton, W. Va.
A.B., Emory and Henry College, 1942.

Blake, Frank William — Milton, W. Va.
A.B., West Virginia Wesleyan College, 1942.

Booth, Robert Irvin — Danville, Va.
A.B., University of Richmond, 1932.

Brickhouse, Ernest Fielding — Norfolk, Va.
A.B., Elon College, 1941.

Brinson, John Clinton — Owensboro, Ky.
A.B., Kentucky Wesleyan College, 1942.

Broadhead, Edward Hall — Durham, N. C.
A.B., Denison University, 1931;
A.M., Duke University, 1933;
M.Mus., University of Michigan, 1939.

Byrum, Roy Delbert — Charlotte, N. C.
A.B., High Point College, 1941.

Cooke, Jack Homer — Maiden, N. C.
A.B., Lenoir-Rhyne College, 1942.

Dalton, George Willie — Lewisville, N. C.
A.B., High Point College, 1943.

Dennis, Paul Martin — Mt. Gilead, N. C.
A.B., Wake Forest College, 1943.

Ehlhardt, George Brinkmann — St. Louis, Mo.
A.B., John B. Stetson University, 1938.

Everett, Caleb Roy, Jr. — Newsoms, Va.
A.B., Randolph-Macon College, 1942.

Ford, Jesse Emerson, Jr. — Orangeburg, S. C.
A.B., Wofford College, 1941.

Fridley, Robert Daniel — Check, Va.
A.B., Randolph-Macon College, 1942.

Fuqua, Robert Meek — Bluefield, W. Va.
A.B., Duke University, 1943.

Greene, Franklin William — St. Louis, Mo.
A.B., Baker University, 1942.

Hamm, John Madison — Tobaccoville, N. C.
A.B., High Point College, 1942.

Harbuck, George Welcome — Timpson, Tex.
B.S., University of Houston, 1938.

Jackson, Lester Polk, Jr. — El Paso, Tex.
A.B., Texas College of Mines, 1942.

Jolly, Joseph Ralph — Tallassee, Ala.
A.B., Birmingham-Southern College, 1942.

Jones, Haniel — Phenix City, Ala.
A.B., Millsaps College, 1942.

Jones, Murray Hughlon A.B., Teachers College of Kansas City, 1942.	Kansas City, Mo.
Lowder, John Albert A.B., High Point College, 1942.	Mocksville, N. C.
McCarver, Clyde Gay A.B., University of Georgia, 1942.	Vidette, Ga.
McGinnis, James William A.B., Guilford College, 1942.	Salisbury, N. C.
Moore, Jack Warren A.B., Olivet College, 1934.	Greensboro, N. C.
Needham, George Harlan A.B., High Point College, 1941.	Charlotte, N. C.
Perry, Charles Streamburg A.B., Kentucky Wesleyan College, 1942.	Paintsville, Ky.
Polk, Charles A.B., Wofford College, 1942.	Varnville, S. C.
Preston, Norman G., Jr. B.S., Louisiana State University, 1940.	Shreveport, La.
Purcell, Eugene George, Jr. A.B., Duke University, 1942.	Erwin, N. C.
Ray, Milton Undrel A.B., West Virginia Wesleyan College, 1942.	Cambridge, Md.
Ridenhour, Henry Isley A.B., High Point College, 1942.	Seagrove, N. C.
*Ritchie, Adam Greig Guilford College, 1944.	Burlington, N. C.
Sales, Reames Hawthorne A.B., Hendrix College, 1942.	Forrest City, Ark.
Sharpe, Charles Cleveland, Jr. A.B., High Point College, 1940.	Greensboro, N. C.
Tucker, Roger Wilkins A.B., High Point College, 1943.	Madison, N. C.
Turner, Archer Rudder A.B., Lynchburg College, 1942.	Lynchburg, Va.
Vereen, LaFon Carpenter B.S., Clemson College, 1941.	Latta, S. C.
Waugh, Ray Paschal A.B., Lenoir-Rhyne College, 1942.	Hiddenite, N. C.
Williams, Harley Morrison A.B., High Point College, 1942.	Salisbury, N. C.

SENIOR CLASS

Albright, William Edward A.B., Emory and Henry College, 1941.	Bluefield, W. Va.
Andrews, Joseph Russell A.B., Wofford College, 1939.	Pamplin, Va.
Bame, Robert Lee A.B., Wofford College, 1941.	Carolina Beach, N. C.
Beard, John S. A.B., Central College, 1940.	Clayton, Mo.
Bell, Roy Edison A.B., Catawba College, 1941.	Charlotte, N. C.

* A.B. degree to be conferred in June, 1944.

Boggs, Charles Marvin A.B., Wofford College, 1941.	Salisbury, N. C.
Boone, Sidney Grant A.B., Duke University, 1934.	Nashville, N. C.
Carlton, Arthur McCoy A.B., Birmingham-Southern College, 1941.	Montgomery, Ala.
Carter, James Edwin B.S., Appalachian State Teachers College, 1940.	Milton, N. C.
Chaffin, James Claude A.B., Duke University, 1941.	Jonesboro, N. C.
Conyers, David Paxton A.B., Hendrix College, 1941.	Sidney, Ark.
Elliott, Mahlon Hamlett A.B., Asbury College, 1942.	Danville, Va.
Evans, Robert Weldon A.B., Hendrix College, 1941.	Batesville, Ark.
Fleming, Murry Douglas A.B., Southern Methodist University, 1941.	Terrell, Tex.
Galloway, Benedict Atkins A.B., Louisiana State University, 1938.	Zachary, La.
Glenn, Henry Clarence, III A.B., Duke University, 1938.	Durham, N. C.
Hendrix, Major Clyde A.B., University of South Carolina, 1941.	West Columbia, S. C.
Ingram, Osmond Kelly A.B., Birmingham-Southern College, 1940.	Wilmington, N. C.
Jones, George Wesley A.B., Randolph-Macon College, 1941.	Norfolk, Va.
Jordan, John Sharpe A.B., Duke University, 1940.	West Jefferson, N. C.
Kennedy, Arthur Cicero, Jr. A.B., High Point College, 1941.	Midland, N. C.
Knight, James Allen A.B., Wofford College, 1941.	St. George, S. C.
McCoy, Lewistine Martin A.B., Kentucky Wesleyan College, 1940.	Lexington, Ky.
McDonald, Thaddeus LeVerne B.S., Birmingham-Southern College, 1941.	Jasper, Ala.
McGuire, Douglas Lyons A.B., Louisiana Polytechnic Institute, 1941.	Arcadia, La.
Mackay, Donald Mason A.B., Emory University, 1938.	Atlanta, Ga.
Miller, Gilbert Shelly A.B., Lenoir-Rhyne College, 1940.	Greensboro, N. C.
Mitchell, Charles Maness A.B., Duke University, 1941.	Buies Creek, N. C.
Musser, Benjamin Franklin A.B., Hendrix College, 1941.	Savannah, Ga.
Pannill, Harry Burnell A.B., Randolph-Macon College, 1941.	Waynesboro, Va.
Phifer, Ernest Carl A.B., Stephen F. Austin State Teachers College, 1940.	Leona, Tex.

Powell, John James — Reidsville, N. C.
A.B., Lenoir-Rhyne College, 1939.

Rainwater, Roland William, Jr. — Roberdell, N. C.
A.B., Wofford College, 1940.

Register, Kenneth Davis — Burlington, N. C.
A.B., Elon College, 1941.

Rock, William Alfred, Jr. — Lewisville, N. C.
A.B., Wofford College, 1941.

Stevenson, Linwood Jennings — Montross, Va.
A.B., Emory and Henry College, 1941.

Sturtevant, William Lyons — Norfolk, Va.
A.B., Randolph-Macon College, 1939.

Ware, Lee Wilson — Jerome, Ariz.
A.B., Hendrix College, 1942.

Wellons, Albert Wilson — Morganton, N. C.
A.B., Lenoir-Rhyne College, 1940.

CANDIDATES FOR THE DEGREES OF MASTER OF ARTS AND DOCTOR OF PHILOSOPHY IN THE FIELD OF RELIGION

Carroll, Howard — Easton, Md.
A.B., University of Richmond, 1938;
B.D., Duke University, 1943.

Coble, Joseph Fillmore — Tabor City, N. C.
A.B., High Point College, 1934;
S.T.B., Westminster Theological Seminary, 1937.

Crockett, Mary Winston — Glen Burnie, Md.
B.S., University of Virginia, 1940;
M.R.E., Presbyterian Training School, 1943.

DuBose, Samuel Wilds — Hillsboro, N. C.
A.B., Davidson College, 1931;
B.D., Union Theological Seminary, Richmond, 1935;
A.M., Duke University, 1943.

Greene, Charles Sylvester — Durham, N. C.
A.B., Wake Forest College, 1922;
A.M., Duke University, 1924;
B.D., Duke University, 1930.

Harrell, Margaret Elizabeth — Cordele, Ga.
A.B., Wesleyan College, 1936.

King, Sarah Edna — Beaver Falls, Pa.
A.B., Geneva College, 1937.

Loveland, Clara Olds — Glendale, Ohio
A.B., Wellesley College, 1921;
A.M., Columbia University, 1934;
B.D., Berkeley Divinity School, 1939.

Nichols, Hugh Lester — Durham, N. C.
A.B., Trinity College, 1916;
Th.M., Southern Baptist Theological Seminary, 1923.

O'Brien, Joseph William — Sandusky, Ohio
A.B., Georgetown College, 1938;
B.D., Colgate-Rochester Divinity School, 1942.

Ramsay, Charles McKay — Gallatin, Tenn.
A.B., Berea College, 1938;
B.D., Union Theological Seminary, N. Y., 1941.

Rudisill, Dorus Paul — Durham, N. C.
A.B., Lenoir-Rhyne College, 1922;
A.M., University of South Carolina, 1925;
B.D., Southern Seminary, 1925;
S.T.M., Hartford Theological Seminary, 1932.

Schafer, Thomas Anton — E. Liverpool, Ohio
A.B., Maryville College, 1940;
B.D., Presbyterian Theological Seminary, 1943.

Starr, Homer Pilgrim — Chapel Hill, N. C.
A.B., University of the South, 1934;
B.D., Virginia Theological Seminary, 1938.

Woodbridge, Charles Jahleel — Salisbury, N. C.
A.B., Princeton University, 1923;
A.M., Princeton University, 1927;
Th.B., Princeton Theological Seminary, 1927.

Young, Franklin Woodrow — Columbus, Ohio
A.B., Dartmouth College, 1937;
B.D., Crozer Theological Seminary, 1942.

STUDENTS IN THE SUMMER SESSION, 1943
FIRST TERM

Beard, John S. — Clayton, Mo.
A.B., Central College, 1940.

Bell, Roy Edison — Spencer, N. C.
A.B., Catawba College, 1941.

Broadhead, Edward Hall — Durham, N. C.
A.B., Denison University, 1931;
A.M., Duke University, 1933;
M.Mus., University of Michigan, 1939.

Coble, Joseph Fillmore — Tabor City, N. C.
A.B., High Point College, 1934;
S.T.B., Westminster Theological Seminary, 1937.

Ehlhardt, George Brinkmann — St. Louis, Mo.
A.B., John B. Stetson University, 1938.

Elliott, Mahlon Hamlett — Danville, Va.
A.B., Asbury College, 1941.

Greenhaw, Cecil Barksdale — Garland, Tex.
A.B., Southern Methodist University, 1943.

Gregory, Walter Bryan — Angier, N. C.
A.B., High Point College, 1942.

Harrell, Margaret Elizabeth — Cordele, Ga.
A.B., Wesleyan College, 1936.

Kennedy, Arthur Cicero — Midland, N. C.
A.B., High Point College, 1941.

McClain, Howard G. — Chapel Hill, N. C.
A.B., Vanderbilt University, 1939;
B.D., Southern Baptist Theological Seminary, 1943.

McDonald, Thaddeus LeVerne — Jasper, Ala.
B.S., Birmingham-Southern College, 1941.

Needham, George Harlan — Charlotte, N. C.
A.B., High Point College, 1941.

Nichols, Hugh Lester — Durham, N. C.
A.B., Duke University, 1916;
Th.M., Southern Baptist Theological Seminary, 1923.

Pannill, Harry Burnell — Waynesboro, Va.
A.B., Randolph-Macon College, 1941.

Purcell, Eugene George — Erwin, N. C.
A.B., Duke University, 1942.

Rudisill, Dorus Paul — Durham, N. C.
A.B., Lenoir-Rhyne College, 1922;
A.M., University of South Carolina, 1925;
B.D., Southern Seminary, 1925;
S.T.M., Hartford Theological Seminary, 1932.

Stanfield, Claude Edwin A.B., Florida Southern College, 1943.	Sarasota, Fla.
Storch, Margaret Rees B.A., Cedar Crest College, 1940.	Calasauqua, Pa.
Ware, Lee Wilson A.B., Hendrix College, 1942.	Jerome, Ariz.
Wellons, Albert Wilson A.B., Lenoir-Rhyne College, 1940.	Wilkesboro, N. C.

SECOND TERM

Bell, Roy Edison A.B., Catawba College, 1941.	Spencer, N. C.
Clark, Ellis Nusome A.B., Elon College, 1941.	Swepsonville, N. C.
Ehlhardt, George Brinkmann A.B., John B. Stetson University, 1938.	St. Louis, Mo.
Elliott, Mahlon Hamlett A.B., Asbury College, 1941.	Danville, Va.
Greenhaw, Cecil Barksdale A.B., Southern Methodist University, 1943.	Garland, Tex.
Harrell, Margaret Elizabeth A.B., Wesleyan College, 1936.	Cordele, Ga.
Kern, Mary Katharine A.B., Goucher College, 1932.	Winchester, Va.
McCoy, Charles Sherwood A.B., University of North Carolina, 1943.	Laurinburg, N. C.
McCoy, Lewistine Martin A.B., Kentucky Wesleyan College, 1940.	Lexington, Ky.
Miller, Gilbert Shelly A.B., Lenoir-Rhyne College, 1940.	Greensboro, N. C.
Register, Kenneth Davis A.B., Elon College, 1941.	Burlington, N. C.
Stanfield, Claude Edwin A.B., Florida Southern College, 1943.	Sarasota, Fla.
Wellons, Albert Wilson A.B., Lenoir-Rhyne College, 1940.	Wilkesboro, N. C.

VOLUME 16 May, 1944 NUMBER 5-A

BULLETIN OF DUKE UNIVERSITY

The Graduate School of Arts and Sciences

1943-1944
ANNOUNCEMENTS FOR 1944-1945

PUBLISHED BY THE UNIVERSITY
DURHAM, NORTH CAROLINA

ANNUAL BULLETINS

For General Bulletin of Duke University, apply to *The Secretary,* Duke University, Durham, N. C.

For Bulletin of Undergraduate Instruction, apply to *The Secretary,* Duke University, Durham, N. C.

For Bulletin of The College of Engineering, apply to *The Secretary,* Duke University, Durham, N. C.

For Bulletin of The Graduate School of Arts and Sciences, apply to *The Dean of the Graduate School,* Duke University, Durham, N. C.

For Bulletin of The School of Law, apply to *The Dean of the School of Law,* Duke University, Durham, N. C.

For Bulletin of The School of Medicine, apply to *The Dean of the School of Medicine,* Duke University, Durham, N. C.

For Bulletin of The School of Nursing, apply to *The Dean of the School of Nursing,* Duke University, Durham, N. C.

For Bulletin of The Divinity School, apply to *The Dean of the Divinity School,* Duke University, Durham, N. C.

For Bulletin of The School of Forestry, apply to *The Dean of the School of Forestry,* Duke University, Durham, N. C.

For Bulletin of The Summer Session, apply to *The Director of the Summer Session,* Duke University, Durham, N. C.

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BULLETIN

OF

DUKE UNIVERSITY

THE GRADUATE SCHOOL OF ARTS AND SCIENCES

1943-1944

ANNOUNCEMENTS FOR 1944-1945

DURHAM, NORTH CAROLINA
1944

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UNIVERSITY CALENDAR

1944

June 20.	Tuesday, 9:00 A.M.—Registration of students for Summer Session, first term.
June 21.	Wednesday, 8:00 A.M.—Instruction begins for Summer Session, first term.
July 4.	Tuesday—Independence Day: a holiday.
July 29, 31.	Saturday, Monday—Final examinations for Summer Session, first term.
July 31.	Monday, 2:00 P.M.—Registration of students for Summer Session, second term.
Aug. 1.	Tuesday, 8:00 A.M.—Instruction begins for Summer Session, second term.
Sept. 8-9.	Friday, Saturday—Final examinations for Summer Session, second term.
Sept. 20.	Wednesday, 12:15 P.M.—Formal opening of the University.
Sept. 21-23.	Thursday, 9:15 A.M.-12:45 P.M., 2:30 P.M.-4:30 P.M.; Friday, 9:15 A.M.-12:45 P.M., 2:30 P.M.-4:30 P.M.; Saturday, 9:15 A.M.-12:45 P.M.—Registration of graduate students for first semester.
Sept. 25.	Monday—Instruction for graduate students begins.
Oct. 16.	Monday—Last day for submitting thesis subjects for the degree of Doctor of Philosophy.
Nov. 6-11.	French examinations for candidates for graduate degree. Candidates register in the Graduate Office for these examinations before October 26.
Nov. 13-18.	German examinations for candidates for graduate degrees. Candidates register in the Graduate Office for these examinations before November 2.
Nov. 15.	Wednesday—Last day for submitting thesis subjects for the degrees of Master of Arts and Master of Education.
Nov. 30.	Thursday—Thanksgiving Day: a holiday.
Dec. 11.	Monday—Duke University Day.
Dec. 20.	Wednesday, 1:00 P.M.—Christmas recess begins.

1945

Jan. 4.	Thursday, 1:00 P.M.—Instruction is resumed.
Jan. 10-19.	Reading period.
Jan. 18-19.	Thursday, Friday, 9:15 A.M.-12:45 P.M.; 2:30 P.M.-4:30 P.M.—Registration of graduate students for second semester.
Jan. 20.	Saturday—Mid-year examinations begin.
Jan. 30.	Tuesday—Mid-year examinations end.

Feb. 1.	Thursday—Second semester begins.
March 1.	Thursday—Last day for applying for University fellowships, graduate assistantships, and graduate scholarships.
March 5-10.	French examinations for candidates for graduate degrees. Candidates register in the Graduate Office for these examinations before February 28.
March 12-17.	German examinations for candidates for graduate degrees. Candidates register in the Graduate Office for these examinations before March 6.
April 2.	Students who expect to receive an advanced degree in May should notify the Graduate Office to that effect.
April 6.	Friday—Last day for submitting theses for degree of Doctor of Philosophy.
April 23-May 5.	Reading period. Instruction is resumed May 7, Monday, 8:30 A.M.
May 1.	Tuesday—Last day for submitting theses for degrees of Master of Arts and Master of Education.
May 14.	Monday—Final examinations, second semester, begin.
May 24.	Thursday—Final examinations, second semester, end.
May 26.	Saturday—Commencement Day.

A number of the science courses are offered on special dates agreeing with the calendar of Trinity College rather than with that of the Graduate School. Applicants for admission to science courses should write the Director of Graduate Studies in the department offering the courses and inquire as to the date of beginning.

1944

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1945

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FEBRUARY

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AUGUST

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JUNE

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OFFICERS OF THE ADMINISTRATION

Flowers, Robert Lee, A.M., LL.D. *President of the University.*	West Campus
Wannamaker, William Hane, A.B., A.M., Litt.D. *Vice-President and Dean of the University*	West Campus
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Robert, Joseph Clarke, A.B., A.M., Ph.D. *Assistant Dean of the Graduate School*	1102 B Street

EXECUTIVE COMMITTEE OF THE GRADUATE SCHOOL COUNCIL

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Dean of the Graduate School of Arts and Sciences, ex officio
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GEORGE THOMAS HARGITT, Ph.B., A.M., Ph.D., Sc.D.
JAY BROADUS HUBBELL, A.B., A.M., Ph.D.
WILLIAM ALEXANDER PERLZWEIG, B.S., A.M., Ph.D.
CHARLES SACKETT SYDNOR, A.B., Ph.D.

* Died, June 3, 1943.
† Resigned, September 15, 1943.

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The date denotes the first year of service at Duke University.

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‡ Resigned, September 15, 1943.

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§ On active duty, U. S. Navy.

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* On active duty, U. S. Navy.
† On active duty, U. S. Marine Corps.

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* On active duty, U. S. Navy.
† Absent on leave, War Industry Service.
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§ Absent on leave, Government Service, second semester, 1943-44.

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MAUGHAN, WILLIAM, (1931) B.S., M.F.
Associate Professor of Forest Management 5 Sylvan Road

‡MOUZON, JAMES CARLISLE, (1932) B.A., Ph.D.
Associate Professor of Physics 132 Pinecrest Road

NEURATH, HANS, (1938) Ph.D.
Assistant Professor of Biochemistry 2505 Club Boulevard

OOSTING, HENRY JOHN, (1932) A.B., M.S., Ph.D.
Assistant Professor of Botany 2642 University Drive

OUTLER, ALBERT C., (1938) A.B., A.M., B.D., Ph.D.
Associate Professor of Historical Theology 2122 Englewood Avenue

PEELE, TALMAGE LEE, (1939) A.B., M.D.
Assistant Professor of Anatomy University Apartments

PERRY, HAROLD SANFORD, (1932) A.B., Ph.D.
Assistant Professor of Botany 2302 Cranford Road

PETRY, RAY C., (1937) A.B., A.M., Ph.D.
Associate Professor of Church History 128 Pinecrest Road

QUYNN, DOROTHY MACKAY, MRS., (1930) A.B., A.M., Docteur de l'Université de Paris
Assistant Professor of History Woodridge Drive, Rockwood

* On active duty, U. S. Army.
† On active duty, U. S. Navy.
‡ Resigned, February 29, 1944.

RANKIN, WILLIAM WALTER, JR., (1926) B.E., M.A.
Professor of Mathematics 1011 Gloria Avenue

*REID, JOHN TURNER, (1939) A.B., A.M., Ph.D.
Assistant Professor of Romance Languages Duke University

ROSE, JESSE LEE, (1936) A.B., M.A., Ph.D.
Instructor in Latin and Greek 603 Watts Street

RUSSELL, ELBERT, (1926) A.B., A.M., Ph.D., Litt.D.
Professor of Biblical Interpretation 804 Fourth Street

SARETT, HERBERT PAUL, (1939) A.B., M.S., Ph.D.
Instructor in Biochemistry Duke Hospital

SAYLOR, JOHN HENRY, (1928) A.B., A.M., Ph.D.
Associate Professor of Chemistry 707 Club Boulevard

SCHUMACHER, FRANCIS X., (1937) B.S.
Professor of Forestry 6 Sylvan Road

SEELEY, WALTER JAMES, (1925) E.E., M.S.
Professor of Electrical Engineering 1005 Urban Avenue

SMITH, DAVID TILLERSON, (1930) A.B., M.D.
Professor of Bacteriology and Associate Professor of Medicine Hope Valley

†SPRINGER, JOHN YOUNG, (1936) A.B., M.B.A.
Assistant Professor of Economics Duke University

‡STILL, BAYRD, (1938) A.B., A.M., Ph.D.
Assistant Professor of History Duke University

§STINESPRING, WILLIAM FRANKLIN, (1936) B.A., M.A., Ph.D.
Associate Professor of Old Testament 1107 Watts Street

TALBERT, ERNEST WILLIAM, (1942) A.B., A.M., Ph.D.
Assistant Professor of English 2803 Nation Avenue

TAYLOR, HAYWOOD MAURICE, (1930) B.S., M.S., Ph.D.
Associate Professor of Biochemistry and Toxicology
University Drive, Rockwood

THOMPSON, EDGAR TRISTRAM, (1935) A.B., A.M., Ph.D.
Associate Professor of Sociology 138 Pinecrest Road

†THOMSON, ROY BERTRAND, (1938) B.S., M.F., Ph.D.
Associate Professor of Forest Economics 2243 Cranford Road

†TRUESDALE, JAMES N., (1930) A.B., A.M., Ph.D.
Instructor in Greek Duke University

VAN ALSTYNE, DOROTHY, (1942) A.B., A.M., Ph.D.
Visiting Assistant Professor of Education 102 Faculty Apartments

WACKERMAN, ALBERT EDWARD, (1938) B.S., M.F.
Professor of Forest Utilization Dover Road, Hope Valley

WALTER, DAVID OSWELL, (1942) A.B., A.M., Ph.D., J.D.
Visiting Assistant Professor of Political Science 2809 Legion Avenue

WALTON, LORING BAKER, (1929) A.B., Lic. ès L., Ph.D.
Associate Professor of Romance Languages 2235 Cranford Road

WARD, CHARLES EUGENE, (1927) A.B., A.M., Ph.D.
Associate Professor of English Guess Road

* Absent on leave, Government Service, 1943-44.
† On active duty, U. S. Navy.
‡ On active duty, U. S. Army.
§ Absent on Sabbatical leave, first semester, 1943-44.

WAY, VERNON ELGIN, (1930) A.B., A.M., M.A.
Assistant Professor of Greek — 909 Gregson Street

WILSON, ROBERT NORTH, (1910) A.B., M.S.
Professor of Chemistry — 822 Third Street

WOODY, ROBERT HILLIARD, (1929) Ph.B., A.M., Ph.D.
Assistant Professor of History — 2648 University Drive

HUMM, HAROLD JUDSON, (1942) B.S., A.M.
Resident Investigator, Marine Station — Beaufort, N. C.

RESEARCH ASSOCIATES

Name	*Department*	*Home Address*
Breslow, David Samuel B.S., College of the City of New York; Ph.D., Duke University	Chemistry	Durham, N. C.
Darkis, Frederick Randolph B.S., M.S., Ph.D., University of Maryland	Chemistry	Durham, N. C.

UNIVERSITY FELLOWS

Carroll, Howard A.B., University of Richmond; B.D., Duke University	Religion	Easton, Md.
Evans, Alona Elizabeth A.B., Duke University	Political Science	Durham, N C.
Kreps, Clifton Holland, Jr. A.B., The College of William and Mary; A.M., University of North Carolina	Economics	Norfolk, Va.
Morris, Clara Juanita A.B., Berea College	Economics	Benham, Ky.
Ramsay, Charles McKay A.B., Berea College; B.D., Union Theological Seminary	Religion	Lynnville, Tenn.
Smith, William Jordan Joseph A.B., University of Texas	Economics	Dallas, Tex.
Wiggins, Elizabeth Lewis A.B., Winthrop College; A.M., Duke University	English	Holly Hill, S. C.
Young, Franklin Woodrow A.B., Dartmouth College; B.D., Crozer Theological Seminary	Religion	Chester, Pa.

GRADUATE SCHOLARS

*Candler, Frances Godfrey A.B., Randolph-Macon Woman's College	History	Madison, Ga.
†Cooper, Joel Aubrey A.B., Hendrix College; B.D., Duke University	Religion	Paragould, Ark.
Keppel, Dorothy Jane A.B., Heidelberg College	Sociology	Berea, Ohio
‡King, Sara Edna A.B., Geneva College	Religion	Beaver Falls, Pa.
O'Brien, Joseph William A.B., Georgetown College; B.D., Colgate-Rochester Divinity School	Religion	Kingsville, Ohio

* Resigned, March 1, 1944.
† Resigned, October 31, 1943.
‡ Second semester only.

Rudisill, Dorus Paul — Religion — Durham, N. C.
A.B., Lenoir Rhyne College; A.M., University of South Carolina; B.D., Lutheran Theological Seminary; S.T.M., Hartford Theological Seminary

Schafer, Thomas Anton — Religion — Liverpool, Ohio
A.B., Maryville College; B.D., Louisville Presbyterian Theological Seminary

Stone, Ann — Romance Languages — Jackson, Miss.
A.B., Millsaps College

Truscott, Ethel Irene — English — Lomas de Gamora, Argentina
A.B., Coker College

Wall, Mildred Eugenia — History — Birmingham, Ala.
A.B., Birmingham-Southern College

GRADUATE ASSISTANTS

Adams, Joe Taylor — Chemistry — Dallas, Texas
B.S., Southern Methodist University

*Bass, Arnold Marvin — Physics — New York, N. Y.
B.S., College of the City of New York; A.M., Duke University

Bevan, William, Jr. — Psychology — Plains, Pa.
A.B., Franklin and Marshall College; A.M., Duke University

†Braverman, Howard — History — Brooklyn, N. Y.
A.B., Brooklyn College

Bryan, Thomas Conn — History — Skyland, N. C.
A.B., Duke University; A.M., University of North Carolina

Buchanan, Edith — English — Cullowhee, N. C.
A.B., Meredith College

Collins, Herbert — History — Brooklyn, N. Y.
A.B., Brooklyn College

Field, Frank Henry — Chemistry — Cliffside Park, N J.
B.S., Duke University

‡Freiser, Henry — Chemistry — Durham, N. C.
B.S., College of the City of New York; A.M., Duke University

Fries, Jean Nevin — English — Chambersburg, Pa.
A.B., Wilson College

Hertz, Hilda — Sociology — Forest Hills, L. I., N. Y.
A.B., Skidmore College

Kao, Katherine Chun Ch'un — Psychology — Peiping, China
A.B., A.M., Yenching University

§Kennedy, Philip Edward — English — Fairmont, W. Va.
A.B., Fairmont State Teachers College; A.M., West Virginia University

Kingston, Marion Josephine — English — Melrose, Mass.
A.B., Mount Holyoke College

Kinsman, Margaret Eleanor — History — Peoria, Ill.
A.B., MacMurray College

||Knight, Walter David, Jr. — Physics — Newton Centre, Mass.
A.B., Middlebury College; A.M., Duke University

* Resigned, November 26, 1943.
† Appointed, March 1, 1944.
‡ Resigned, February 29, 1944.
§ Resigned, November 1, 1943.
|| Resigned, November 2, 1943.

Knox, Norman Davis A.B., Swarthmore College	English	McKeesport, Pa.
Krathwohl, Betty Augenstine B.S., Alfred University	Zoology	Silver Creek, N. Y.
Krummel, Mary Eleanor A.B., Duke University; B.S., Institute of Musical Art	Romance Languages	Durham, N. C.
Lair, Eugenie Dille AB., Randolph-Macon Woman's College	Botany	Cynthiana, Ky.
Levine, Robert A.B., A.M., Dartmouth College	Chemistry	East Boston, Mass.
Luborsky, Lester Bernard A.B., Temple University; A.M., Duke University	Psychology	Philadelphia, Pa.
*Lyons, Richard Edwin A.B., University of Buffalo	Physics	Buffalo, N. Y.
McAndrew, Florence Helton A.B., Mary Baldwin College; A.M., Northwestern University	Psychology	Chicago, Ill.
Manes, Milton B.S., College of the City of New York	Chemistry	New York, N. Y.
†Moore, Edward James, Jr. A.B., University of Buffalo	Physics	Getzville, N. Y.
Parks, Elizabeth Miriam A.B., Grinnell College	English	Denver, Colo.
Pohl, Marian Evelyn B.S., Duke University	Zoology	Trenton, N. J.
Rapoport, Lorence A.B., Harvard College	Chemistry	Hartford, Conn.
Raskin, Vilma Leah A.B., Brooklyn College	English	Brooklyn, N. Y.
Roebuck, Julian Baker A.B., Atlantic Christian College	Sociology	Wilson, N. C.
Rosenbaum, Haskell Menachim B.S., College of the City of New York	Chemistry	Sunnyside, N. Y.
Schaedler, Frances Ann Craghead A.B., Randolph-Macon Woman's College; A.M., Duke University	Latin	Lynchburg, Va.
Scheraga, Harold Abraham BS., College of the City of New York; A.M., Duke University	Chemistry	Durham, N. C.
Shapiro, Constance A.B., Hunter College	English	New York, N. Y.
Shivers, Joseph Clois, Jr. B.S., A.M., Duke University	Chemistry	Riverton, N. J.
‡Taylor, Harold Norman A.B., A.M., State University of Iowa	History	Jasonville, Ind.
Thevaos, Deno George A.B., Emory University	Education	Augusta, Ga.
Tomlinson, Muriel Dorothy A.B., Bates College	Romance Languages	Manchester, Conn.

* Resigned, March 3, 1944.
† Resigned, January 31, 1944.
‡ Resigned, March 8, 1944.

*Tompson, Reade Yates B.S., Brown University	Chemistry	Attleboro, Mass
Walker, Howard George, Jr. B.S., Duke University	Chemistry	Westfield, N. J.
Weith, Archie James, Jr. A.B., A.M. Duke University	Chemistry	Caldwell, N. J.
Wiggins, Pauline Evelyn A.B., University of Chattanooga	English	Birchwood, Tenn.
Wissow, Lennard Jay B.S., Pennsylvania State College; A.M., Duke University	Chemistry	Philadelphia, Pa.
Wood, Virginia Loraine A.B. Roanoke College	Political Science	Roanoke, Va.
Yost, Robert Stanley B.S., Pennsylvania State College	Chemistry	Pottsville, Pa.

GRADUATE RESEARCH ASSISTANTS

Bloom, Melvin Sigmund B.S., Furman University	Chemistry	Greenville, S. C.
Deal, Carl Hosea, Jr. B.S., Duke University	Chemistry	Salisbury, N. C.
Gilbert, Alfred Rachels B.S., University of Richmond; A.M., Duke University	Chemistry	Richmond, Va.
Holub, Frederick Franklin B.S., Western Reserve University	Chemistry	Cleveland, Ohio
Kittila, Richard Sulo B.Chem., University of Minnesota	Chemistry	Ely, Minn.
Tarrant, Paul B.S., Howard College; M.S., Purdue University	Chemistry	Birmingham, Ala.
Tompson, Reade Yates B.S., Brown University	Chemistry	Attleboro, Mass.
Weiss, Martin Joseph A.B., New York University	Chemistry	New York, N. Y.

GRADUATE APPOINMENTS IN THE SCHOOL OF MEDICINE

RESEARCH FELLOWSHIP IN BIOCHEMISTRY

Putnam, Frank W. — Durham, N. C.
A.B., A.M., Wesleyan; Ph.D., Minnesota

NUTRITION FOUNDATION IN BIOCHEMISTRY

Huff, Jesse William — Jeannette, Pa.
B.S., University of Pittsburgh

RESEARCH ASSISTANT IN BIOCHEMISTRY

Erickson, John Otto — Virginia, Minn.
B.S., University of Minnesota

ABBOTT LABORATORIES FELLOW IN BIOCHEMISTRY

Volkin, Elliott — Mt. Pleasant, Pa.
B.S., Pennsylvania State College

* Resigned, February 29, 1944.

GRADUATE INSTRUCTION IN DUKE UNIVERSITY

ADMISSION

TO GRADUATE COURSES

A student who has received the A.B. or B.S. degree for a four-year undergraduate course may be admitted to take graduate courses in the Graduate School of Arts and Sciences of Duke University, provided that his undergraduate record gives positive evidence of ability to undertake graduate study successfully. An average grade of not less than "B" is ordinarily accepted as evidence of such ability.

Applicants for admission are encouraged to take the Graduate Record Examination administered by the Graduate Record Office, 437 West 59th Street, New York City, which, on application, will suggest a convenient examination center. The scores made on this examination will be welcomed as an especially desirable credential. Students who take the Graduate Record Examination must make their arrangements directly with the Graduate Record Office, which charges a nominal fee of three dollars.

No college or university work taken before the Bachelor's degree is conferred, or fully earned, may be credited toward an advanced degree except under the following circumstances: A student of Duke University who lacks at the beginning of a term not more than nine semester hours of fulfilling the requirements for the Bachelor's degree may obtain permission from the Dean of the Graduate School to take during the term graduate courses sufficient to bring his total work to fifteen hours a week. Such graduate courses will be credited toward the degree of Master of Arts or Master of Education if registered in the Graduate School Office at the beginning of the term and if the student meets the requirements below for formal admission to the Graduate School.

A candidate for admission to graduate courses should ask the proper officer of the college(s) he attended to send directly to the Dean of the Graduate School an official transcript of his undergraduate record. An advanced student should provide also a transcript of the graduate work completed by him. In no case will a transcript presented by the candidate himself be accepted as a basis for admission, nor will a transcript mailed by any institution be returned to the student. An application blank for admission will be provided upon request to the Dean of the Graduate School. The transcript and application should be submitted to the Graduate School by September 1 for admission in the autumn semester and by January 15 for admission in the spring semester.

TO THE GRADUATE SCHOOL

After twelve semester hours of graduate work, the student may apply for admission to the Graduate School, and thus become a candidate for the Master's degree. Such admission is dependent upon the fulfillment

of two conditions. (1) The student must have made a mark of "G" or "Good" in at least three semester hours of work, with no mark less than "S." Candidates who cannot meet this condition may at a later time submit their records for re-evaluation, provided that in their subsequent work they shall have made a substantial number of "G's." (2) The student in his undergraduate work must have met substantially the requirements for the A.B. or B.S. degree at Duke University.* Any deficiencies of undergraduate work must be satisfied before admission to the Graduate School. Graduate courses taken at Duke University prior to formal admission to the Graduate School will count toward a higher degree provided they are in accord with its requirements and are acceptable to the major department. A graduate student may be requested to withdraw from the University at the discretion of the Dean of the Graduate School.

REGISTRATION

A student who is admitted to graduate courses will receive a permit to register, which he should present when he registers for courses. Before actually registering in the Graduate School Office, the student should consult with the Director of Graduate Studies or his representative in the department in which he proposes to major and receive written approval of his schedule of courses. This can be done during the registration period in September and January. The department concerned will determine whether a student is prepared to take any particular course. In all cases the student must make up without credit toward a graduate degree all prerequisites required by the major department of candidates for advanced degrees. Students who have fulfilled the minimum residence requirements for the doctorate but who are continuing resident study at Duke University for the degree should register in the Graduate School Office, even though there may be no fees to be charged.

New students are advised to arrive early during the registration period in order to formulate their programs. *Anyone registering for courses after the close of the regular registration period will be charged a late registration fee of five dollars.*

TUITION AND FEES

GENERAL FEES IN THE ACADEMIC YEAR

The following table shows the general fees and charges collected from all students and the special fees collected from those taking courses in the sciences. All fees for each semester are due and payable, unless otherwise specified, at the time of registration at the beginning of that semester. No student is admitted to classes until arrangements have been made with the Treasurer of the University for the settlement of fees.

Matriculation, per semester	$ 25.00
Tuition, per semester	100.00
Room-rent—See detailed statement on pages 23-24.	

* In meeting the requirements for the A.B. or B.S. degree at Duke Universtiy, a student is not allowed excessive concentration in any one field. The same principle is applied in evaluating the undergraduate record of candidates for admission to the Graduate School.

Athletic Fee, admitting students to all athletic contests held on the University grounds, per semester	5.00
Damage Fee, payable annually in September	1.00
Medical Fee, per semester	5.00
Library Fee, per semester	5.00
Commencement Fee, payable once by graduate students in the last semester before a degree is conferred	3.00
Diploma Fee, payable by candidates for degrees at the beginning of the second semester, refunded if the diploma is not awarded	5.00
Special Thesis Fee, payable by candidates for Ph.D. degree in the last semester before the degree is granted. Returned on satisfactory publication of thesis. See page 31	50.00

SPECIAL FEES

Graduate students in the sciences are required to pay the regular laboratory fees for courses as determined by the various departments. An administrative fee is charged in connection with special research work in the summer under direction of a member of the Faculty.

STUDENTS FROM THE UNIVERSITY OF NORTH CAROLINA GRADUATE SCHOOL

Under an experimental plan of co-operation between the University of North Carolina and Duke University, regular students from the University of North Carolina Graduate School admitted to courses in the Duke University Graduate School pay a registration fee of two dollars and any laboratory or special course fees which are required of all students.

TRANSCRIPTS

A student desiring to transfer from Duke University to another institution is entitled to one free transcript of his record. A charge of one dollar, payable in advance, is made for each additional copy. Transcripts of students who enroll in graduate courses only in the summer sessions are issued by the Summer Session Office prior to the fulfillment of all requirements toward an advanced degree, after which time they can be obtained in the regular way from the Graduate School.

PAYMENTS TO FELLOWS, SCHOLARS, AND GRADUATE ASSISTANTS

Payments by the University of stipends to fellows, scholars, and graduate assistants are made in four equal installments, approximately the middle and end of each semester. Tuition and fees are charged against the stipends.

Fellows and scholars are required to pay the regular tuition and fees and are expected to take a full program of work. Assistants who are permitted to register for only four fifths of a regular program are charged a proportionate amount of the tuition in addition to the regular matriculation and other minor fees.

SPECIAL CHARGES FOR TEACHERS AND OTHERS

For the purpose of aiding North Carolina teachers in their professional preparation, Duke University grants a special tuition rate to members of the faculties of near-by schools and colleges who desire to register during the regular academic session for one or two graduate courses. For

such courses a teacher regularly employed and teaching while taking these courses is charged a registration fee of five dollars at the beginning of each semester and a tuition fee of three dollars per semester hour of course credit, together with any laboratory fees which may be required in these courses. Under this provision a student may not register for more than seven hours per week.

Employees of Duke University who are paid on a monthly basis throughout the year, ministers of near-by churches, and wives of the Duke Faculty may be included under the above provisions by the Dean of the Graduate School, provided that such persons do not receive residence credit in any semester for more than two fifths of a regular program in meeting the requirements for advanced degrees.

The special tuition rate for teachers does not apply in any case to the holders of fellowships, graduate scholarships, and graduate assistantships annually awarded in the Graduate School nor to teachers on leave of absence and not actually engaged in their teaching at the time of registration.

LIVING ACCOMMODATIONS AND EXPENSES

ROOMS

On the West Campus a graduate building, Few Quadrangle, was opened in September, 1939, with accommodations sufficient to meet the requirements of the men in the Graduate School and in the professional schools. Special sections are reserved for those registered in the Graduate School of Arts and Sciences. On the East Campus a limited number of rooms in the Faculty Apartments is available to women registered in the Graduate School. Students' rooms, both on the Woman's College Campus and on the West Campus, are supplied with all necessary furniture. The student should plan to provide his own towels, sheets, pillows, pillowslips, bedcoverings, and table lamp.

Rooms for men in the graduate dormitory on the West Campus vary in rent between $50.00, $62.50, and $75.00 per semester. In the Faculty Apartments on the Woman's College Campus, a single room rents for $87.50 per semester, a double room for $62.50 per semester per person.

Rooms are reserved only for students who have been officially admitted to graduate courses by the University. They are rented for no shorter period than one semester. The occupancy of a room for less than one semester will cost the student one dollar each day unless he makes the necessary arrangements with the Director in the Business Division before occupying the room. Men who desire to live in the graduate dormitory should make application to Mr. W. E. Whitford, Director of the Business Division; a room reservation fee of $25.00 is payable at the date of acceptance of his application for admission to graduate courses. Similarly, women who wish to room in the Faculty Apartments should make application and pay the room reservation fee to Mr. W. A. Tyree, Director of the Business Division. This fee is

deducted from the room-rent in the fall and is not refundable unless the request is made on or before July 15. Early application for a dormitory room is essential if the student wants to be assured of living accommodations on the campus.

A resident student who wishes to retain his room for the succeeding year must pay first a reservation fee of $25.00 to the Treasurer's Office and then notify the office of the Director of the Business Division on or before May 15. All rooms which have not been reserved by that date will be considered vacant for the succeeding year. When a room is once engaged by a student, no change will be permitted except with the consent of the Director of the Business Division.

Graduate students are required to observe the same general regulations as undergraduate students with respect to the use of the rooms. Leaving one room and occupying another without permission is strictly forbidden and will render the offender liable to a charge for both rooms for the entire semester. No occupant is permitted to rent or sublet a room to another occupant. The use of a room for merchandising of any kind is not allowed.

The University does not assume the responsibility of selecting and assigning roommates, though it will gladly render any assistance possible in the matter.

BOARDING ACCOMMODATIONS

Men and women enrolled in the Graduate School will find superior dining facilities in the Unions on the East and West Campuses. The charge for board approximates $265 per year. The Union on the West Campus has, in addition to the regular dining halls, a coffee shop in which *a la carte* service is available.

ESTIMATED EXPENSES IN THE ACADEMIC YEAR

The necessary expenses of a graduate student are moderate. The University dormitories and Unions provide comfortable and wholesome living conditions at a minimum cost. Incidental expenses for recreation, smoking, traveling, clothes, and other items naturally depend on the tastes and habits of the individual. The table below lists the necessary college expenses for one year:

	Low	*Moderate*	*Liberal*
Tuition	$200.00	$200.00	$200.00
Matriculation	50.00	50.00	50.00
Room-rent	100.00	125.00	150.00
Board	265.00	265.00	265.00
Laundry	20.00	25.00	30.00
Books	22.50	30.00	45.00
Library Fee	10.00	10.00	10.00
Athletic Fee	10.00	10.00	10.00
Damage Fee	1.00	1.00	1.00
Medical Fee	10.00	10.00	10.00
	$688.50	$726.00	$771.00

FELLOWSHIPS, SCHOLARSHIPS, AND ASSISTANTSHIPS

For the assistance and encouragement of graduate students of high character and marked ability, the University has established a considerable number of fellowships and scholarships. Holders of fellowships and scholarships will be expected to pay the tuition fee and such additional fees as are regularly required. Applications for these appointments should be received on or before March 1 of each year. In case vacancies occur, applications submitted on a later date will be considered. Appointments which were offered for the year 1944-45 are listed below.

FELLOWSHIPS

One Angier Duke Memorial Fellowship of one thousand dollars.

Twenty university fellowships with stipends varying from six hundred to eight hundred and fifty dollars each.

Two Gurney Harriss Kearns Fellowships in Religion of seven hundred dollars each.

Fellows will be required to give a limited amount of assistance in reading papers, in laboratories, or in other departmental duties. All fellows carry a full program of graduate work.

GRADUATE SCHOLARSHIPS

Twenty-five graduate scholarships with stipends varying from four hundred to four hundred and fifty dollars each.

Scholars may be asked to give a limited amount of assistance in departmental work. They normally carry a full program of graduate studies.

CHARLES W. HARGITT RESEARCH FELLOWSHIP IN ZOOLOGY

The Charles W. Hargitt Research Fellowship in Zoology, carrying a stipend of $1,000, is restricted to research work in the field of *Cytology*. Appointment is for a single year, with the possibility of reappointment. The fellowship is primarily for postdoctoral research. Inquiries and applications should be made to Dr. George T. Hargitt, Biology Building, Duke University, Durham, North Carolina.

FELLOWSHIPS AND GRADUATE SCHOLARSHIPS IN FORESTRY

Information regarding special fellowships and graduate scholarships in forestry may be obtained before March 1, 1945, from the Dean of the School of Forestry, Duke University, Durham, North Carolina.

APPOINTMENTS AS GRADUATE ASSISTANTS

A considerable number of appointments as teaching assistants or readers will be available for graduate students. The compensation will usually range from $300 to $700, depending upon the nature and amount of the work assigned. Assistants receiving $500 or more will be registered for four fifths of a normal program of studies and accordingly will receive four-fifths residence credit. Assistants in this classification will be charged four fifths of the tuition fee, and the same matriculation and minor fees as other students.

All holders of fellowships, scholarships, and graduate assistantships, except as provided in the preceding paragraph, will be expected to pay the full tuition, matriculation, and minor fees which are paid by other graduate students. Even in cases where the fellow, scholar, or graduate assistant is given special permission to register for less than the maximum program allowed under his appointment, no reduction in fees will be granted.

Information regarding fellowships, graduate scholarships, and graduate assistantships, together with application blanks, may be obtained from the Dean of the Graduate School, Duke University, Durham, North Carolina.

SIGMA XI PRIZE AWARDS

The Society of Sigma Xi offers each year a prize of $20 for a Master's thesis or its equivalent and one of $40 for a Ph.D. dissertation or its equivalent in the fields of Botany, Chemistry, Forestry, Mathematics, Medicine, Physics, Psychology, and Zoology. The student must be in residence during the academic year in which the prize is awarded. Students holding graduate appointments are eligible to compete, but instructors, part-time instructors, and interns are not eligible. The department concerned makes the nomination. Full particulars may be obtained from the secretary of the chapter, Dr. F. W. Constant, Department of Physics.

ADVANCED DEGREES

The degrees offered in the Graduate School of Arts and Sciences are Master of Arts (A.M.), Master of Education (M.Ed.), and Doctor of Philosophy (Ph.D.). Most departments of the University are now prepared to give a full program of work leading to the degree of Doctor of Philosophy.

REQUIREMENTS FOR THE DEGREE OF MASTER OF ARTS

LANGUAGE REQUIREMENTS

Candidates for the degree of Master of Arts are required to have a reading knowledge of a foreign language evidenced by examination or by transcript showing the completion of the third college year of the language, or to have a reading knowledge of French and German evidenced by transcript showing the completion of second-year college French and German.

MAJOR AND MINOR SUBJECTS

As a prerequisite to graduate study in his major subject, a student must have completed a minimum of twelve semester hours of approved *preliminary* courses in that department and twelve additional semester hours either in that department or in related work. Many departments require eighteen semester hours of undergraduate credit. The student therefore should read carefully the special requirements listed by each department.

To obtain the degree of Master of Arts, a candidate must complete satisfactorily twenty-four semester hours of graduate courses and a thesis. (The student who takes more than fifteen semester hours of work in the Summer Session must complete a total of twenty-seven hours of course work and a thesis.) The credit for the thesis is six semester hours. Each candidate for the degree must select a major subject, in which the minimum requirement is twelve semester hours and the thesis. A candidate must take six semester hours of graduate work in a minor outside of but approved by the major department, and the remaining six semester hours in the major or minor fields or in a department approved by the major department and by the Graduate School Council. No undergraduate course may be credited toward the degree of Master of Arts.

RESIDENCE REQUIREMENTS

The minimum residence requirement of candidates for the Master's degree is one academic year. Often a longer period of residence will prove necessary. Those students who take more than fifteen semester hours of courses in the Summer Session must fulfill a minimum residence requirement of thirty-three weeks.

Not more than six semester hours of credit toward the Master's degree may be given to graduates of Duke University or of other colleges or universities for acceptable graduate courses or research work completed elsewhere. Such credit shall not shorten the minimum period of full-time residence work required at Duke University. However, with the approval of the student's major department and the Dean of the Graduate School, the student with such credit may be permitted to take six semester hours of required undergraduate training, six semester hours of a required language, or to register for nine or twelve hours of thesis research instead of the usual six semester hours. No credit toward advanced degrees is given for university extension or correspondence courses.

All the work offered for the Master's degree, whether in the regular academic year or in summer sessions, must be completed within a period of six years from the date of beginning.

THESIS

The title of the thesis required in partial fulfillment of the requirements for the degree of Master of Arts or Master of Education must be filed with the Dean of the Graduate School on or before November 15 of the academic year in which it is expected that the degree will be conferred. The subject must receive the written approval of the Director of Graduate Studies of the department in which the candidate has his major field of work and also of the professor under whom the thesis is being written.

Four (or, at the discretion of the department, three) bound typewritten copies of each thesis must be submitted to the Dean of the Graduate School in approved form on or before May 1 of the year in which

the degree is conferred. All copies of the thesis should be brought to the Graduate Office before distribution to the examining committee. The examining committee is composed of three members of the Graduate Faculty appointed by the Dean of the Graduate School after consultation with the professor directing the thesis. Two copies of the approved thesis, the original and one carbon copy, are endorsed by the examining committee and returned to the Dean of the Graduate School, who deposits them in the University Library.

EXAMINATION

Each candidate for the Master's degree is required to appear before the committee mentioned above for a final examination, which will approximate one and one-half hours in length and will be on the thesis and major field.

REQUIREMENTS FOR THE DEGREE OF MASTER OF EDUCATION

The degree of Master of Education is granted to teachers or others engaged in educational service, upon the completion of the prescribed program of study. Candidates for the degree must have had two years of practical experience in teaching when the degree is conferred. This experience may be obtained at any time prior to entering upon candidacy for the degree, or it may be obtained concurrently with the period of study for the degree.

A preliminary requirement for admission to graduate study for this degree is the completion of a minimum of eighteen semester hours of approved undergraduate work in education, including courses in educational psychology and in the history of education, or educational sociology, or school administration. In addition, before being accepted as candidates for the degree, students must early in their residence (1) make a satisfactory score on a test of general ability and (2) demonstrate by examination that they can write acceptable English.

The degree of Master of Education may be earned either with or without a thesis.

Requirements without thesis. Students who elect not to write a thesis must earn thirty hours of course credit (thirty-three in the Summer Session). Twelve of these hours must be secured from the four basic required courses, Education 300, 304, 305, and 317. Besides taking these courses in the usual manner, students must also, toward the end of their residence, pass a comprehensive examination on the content and interrelationships among these four courses. Exemption from not more than two of these courses will be allowed students who can by examination show that they already possess adequate knowledge of the subject matter area or areas involved. Such students must, however, substitute other courses for those from which they are excused, thus still earning the minimum of thirty (or thirty-three) hours of course credit.

Other requirements: a departmental major of at least twelve hours, and an extradepartmental minor of at least six hours. (See page 52

of this *Bulletin* for suggestions with respect to minors.) Toward the end of their residence students must stand a comprehensive examination on their departmental major.

Requirements with thesis. Students are permitted to substitute a thesis for six hours of course credit, provided (1) that in the first fifteen hours of their work (twelve, in the Summer Session) they earn a "G" record on at least six hours, and (2) that they can present a thesis subject which has been approved by the member of the staff in Education who will supervise the thesis as well as by two other members of the staff. (Two of the three faculty members approving the subject must be resident members of the staff in Education.)

Besides the thesis, students must earn twenty-four hours of course credit (twenty-seven in the Summer Session). Six of these hours must be earned by taking any two of the basic courses, Education 300, 304, 305, and 317. (Thesis students are exempted from the comprehensive examination which is required of nonthesis candidates.) Of the remaining eighteen hours (twenty-one in the Summer Session), six hours must be taken in some department other than Education. (See page 52 of this *Bulletin* for suggestions.) The other twelve (or fifteen) hours are taken in the departmental major. All other requirements, such as those relating to residence, preparation of thesis, thesis examination, etc., are the same as for the degree of Master of Arts.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

THE DEGREE

The degree of Doctor of Philosophy is a research degree; it is not based merely upon the completion if a prescribed period of study or upon the obtaining of credit for a given number of courses. The granting of the degree will be based primarily upon evidence of high attainments in a special field of knowledge and upon the production of a thesis embodying the results of original research.

A student who plans to enter upon a program of work leading to the degree of Doctor of Philosophy should consult or enter into correspondence with the Dean of the Graduate School or the Chairman or Director of Graduate Studies of the department concerned. He will then be advised as to the possibility of securing the necessary instruction and supervision of research in the desired field.

RESIDENCE

The normal period of resident graduate study is not less than three academic years. The candidate must spend at least either the last year in actual residence at Duke University, or the first two years. A student whose undergraduate work is insufficient in amount or unsatisfactory in character may expect to spend additional time in preliminary courses essential as a basis for the graduate work he proposes to undertake.

Credit for one year of work done in summer sessions may be given

with the approval of the Graduate School Council and the department in which the student takes his major work. Except in unusual cases, graduate work of fragmentary character taken over a long period of years, or work completed many years before the student becomes a candidate for the degree at Duke University, will not be accepted as satisfying the requirements of residence.

PROGRAM OF STUDY

In the student's second year of graduate work a committee of five members is appointed by the Dean to formulate in consultation with the student the remainder of his doctoral program of study. The professor in charge of his research or the Chairman or Director of Graduate Studies in the student's major department serves as chairman. This committee, with occasional necessary changes, serves also as the examining committee on the student's preliminary and final Ph.D. examinations.

The program recommended by the committee is submitted to the Dean of the Graduate School for his approval on the regular form provided for that purpose. The student must select a major field and one or more minor related fields. When a department offers instruction in a sufficient variety of subjects and the needs of the individual student seem to require it, the Dean of the Graduate School may permit a major and minor to be taken in the same department. In all cases the student is encouraged to select a minor outside the major department.

FOREIGN LANGUAGES

A reading knowledge of French and German will be required. The student will be examined on one of the foreign languages at the beginning of his second year of graduate work. No person may appear for his preliminary examination without having satisfied the language requirements for the Doctor's degree. The department in which he takes his major work may indicate preference as to the language in which the student shall first be examined. Foreign language examinations will be conducted by the appropriate language department in conjunction with the department in which the student has his major field of work.*

PRELIMINARY EXAMINATION

Toward the end of the second full year of graduate work (or in special cases early in the third year), a preliminary examination of each candidate will ordinarily be held covering the general field of his studies. This examination will be conducted by the committee in charge of the student's work and will be either oral or written, or both as the committee may determine. A student who passes the examination will be recognized as a candidate for the Ph.D. degree. The examination on his subject or subjects will ordinarily be held at the time of his preliminary examination. Graduate students who transfer to Duke University to work toward the degree of Doctor of Philosophy and who have already passed the preliminary examination for that degree at another university must take the regular preliminary examination at Duke University.

* See University Calendar, pp. 5-6.

If a student fails on his first examination, he may make a second attempt after six months upon the recommendation of his committee and the approval of the Dean of the Graduate School. Two failures on this examination make the student ineligible to continue work toward the Ph.D. degree at Duke University.

THESIS

The thesis for the Ph.D. degree must be a contribution to knowledge. The subject should receive the written approval of the Director of Graduate Studies of the department in which the candidate has his major field of work and also of the professor under whom the thesis is being written. The title of the thesis must be filed with the Dean of the Graduate School on or before October 15 of the academic year in which the candidate desires to take the final examination for his degree.

The thesis must be completed to the satisfaction of the professor under whom it is written, and four bound, typewritten copies in approved form must be deposited with the Dean of the Graduate School on or before April 15 if the student desires to be examined on the thesis in the same academic year. The bound copies of the thesis should contain at the end an autobiographical sketch of the student. The title page must be approved by the major department and by the Dean of the Graduate School. Two copies of the approved thesis, the original and one carbon copy, are endorsed by the examining committee and returned to the Dean of the Graduate School, who deposits them in the University Library.

Before the degree is conferred the candidate must deposit with the Treasurer of the University as a special thesis fee fifty dollars in cash. If the thesis is published in a form satisfactory to the Dean of the Graduate School and to the professor under whom it is written within a period of three years from the date the degree is granted, the fee of fifty dollars is returned. Ten copies of the published thesis must be filed in the Graduate School Office as provided by regulations of the Graduate School Council. A suitable abstract, or one or more articles, may be accepted as satisfying the publication agreement. If the thesis is not published within the three-year period in a form accepted by the Dean of the Graduate School and by the professor under whom it is written, the deposit of fifty dollars is forfeited, becoming the property of the University. The forfeited thesis fees are credited to a special Thesis Fund which may be used for the publication of such theses as appear to the Graduate Council as worthy of subsidization.

FINAL EXAMINATION

The final examination on the thesis and on the related subject matter in the major or the minor fields will be oral. Approximately one year must elapse between the dates of the preliminary examination and the final examination. Two failures on this examination make a student ineligible to continue work toward the Ph.D. degree at Duke University. The second examination may be given only upon the recommendation of

the professor in charge of the thesis and the approval of the Dean of the Graduate School.

THE GRADING OF GRADUATE STUDENTS

Members of the Faculty are expected to report the grades of graduate students not later than February 10 for the first semester and not later than June 6 for the second semester on the cards provided for that purpose.

In the grading of graduate students, "S" or satisfactory shall represent work of an acceptable character, "G" or good shall be the next higher grade, and "E" or exceptional shall be the highest grade. "F" or failing indicates that the grade of the student is below passing. In a course in which both graduates and undergraduates are enrolled, the grade "S" shall represent approximately an 80 per cent rating. A mark of "Incomplete" may be given when a student has failed, for an acceptable reason, to complete some portion of the required work in a course in which his standing is generally satisfactory. Unless a report is made within one year that the course has been satisfactorily completed, all credit will be lost. No residence credit is granted for that part of a student's program which he fails to complete in a satisfactory manner.

GENERAL REGULATIONS

Not more than twenty-five students are permitted in a class giving graduate credit, nor are undergraduate students below the Senior year permitted in such a class. Exceptions to these rules may be made by special permission of the Graduate School Council on recommendation of the department concerned.

Candidates for advanced degrees should notify the Graduate School Office by April 1 of each year whether or not they expect to complete the requirements for the degree in time to receive it at the Commencement in May.

THE LIBRARY

The total number of volumes in the University Libraries on June 30, 1943, was 681,032 volumes. These are distributed among four main units: the General Library with 507,894 volumes; the Hospital (Medical) Library, 40,284 volumes; the Library of the Law School, 74,098 volumes; and the Woman's College Library, 58,756 volumes.

The work of students in the Graduate School is carried on primarily in the General Library. A Graduate Reading Room, which contains the reference material most in demand, provides a quiet and convenient place for study. Graduate students are also admitted freely to the stacks. Within the stacks are located 108 carrells or desks which are assigned on an annual basis, preference being given to students in the Graduate School. To facilitate work in the natural sciences, the General Library maintains departmental libraries adjacent to laboratories for the Depart-

ments of Chemistry, Physics, and Biology. Departmental libraries are also maintained for the Divinity School, the College of Engineering, and the School of Forestry.

In the field of mathematics and the sciences particular attention has been given to securing files of important journals and serials. A check-list of all scientific periodicals and serials on the University campus shows a total of approximately 2,460 files in a more or less complete form. The total number of current periodicals received by subscription, exchange, and gift in 1942-43 was 2,876, exclusive of duplicates.

In the field of the social sciences and the humanities every effort has been made to secure the basic collections of source material as well as the more important publications of criticism and discussion. This has been done by the acquistion of such sets as the *Die Griechischen Christlichen Schriftsteller der ersten drei Jahrhunderte*, *Corpus Scriptorum Ecclesiasticorum Latinorum*, Migne's *Patrologia*, the *Corpus Scriptorum Historia Byzantiae*, the *Monumenta Germaniae Historica*, the *Acta Sanctorum*, the *Corpus Reformatorum*, the catalogues of the manuscript collections of the larger European libraries, complete files of the publications of the League of Nations, the International Labor Office, and many others. The endeavor to select the more important items in the various fields of graduate work has been supplemented by the purchase of a number of special collections and libraries. Among the more important of these might be mentioned a Peruvian library of approximately seven thousand books and manuscripts; a library of several thousand volumes dealing with Brazil; the Robertson library of Philippiniana; the Lanson Collection of French literature consisting of twelve thousand books and monographs; a Goethe collection of one thousand volumes; a Scandinavian collection of three thousand volumes; a collection of about five thousand items of early Americana, dating from the seventeenth century to 1820; the Holl church history library dealing primarily with the period of the Reformation; a collection of many thousands of church minutes and records of American denominational history; two collections of eighteenth-century English poetry and prose totaling about five thousand items; two special collections, one dealing primarily with Byron and the other with Coleridge, containing a number of manuscripts, annotated copies, and first editions; a collection of material on the Fourier movement; and the Thomas Collection of books on Chinese history and culture. Special mention should be made of the George Washington Flowers Collection of manuscripts, books, newspapers, and pamphlets dealing with all phases of Southern history, and of the Trent Collection of Walt Whitman books and manuscripts.

PUBLIC DOCUMENTS

The importance of public documents as fundamental source materials for the social sciences and as containing also some of the most important work in the field of applied science is being clearly recognized, and an excellent start has been made toward a comprehensive collection of this

material. The Library has been a depository for Federal documents since 1890. State documentary publications are also being systematically collected in co-operation with the University of North Carolina. Of European public documents a representative collection has been secured. Among the more notable items might be mentioned the *British Parliamentary Papers* (since 1925), *Calendar of State Papers,* the *Acts of the Privy Council, Hansard's Debates,* the *Débats Parlementaires* of the French Senate and Chamber of Deputies, the *Journal Officiel de la République Française,* the *Bulletin des Lois de la République Française,* the *Reichsgesetzblatt,* the *Verhandlungen des Reichstages,* the *Atti* of the Italian Parliament, and the *Diario* of the Spanish Cortes. The public documents of the Latin-American countries, especially Argentina, Brazil, Chile, and Peru, form one of the strongest units of the Library.

Under this heading should be mentioned also the Library of Professor Louis Strisower, Sometime President of the Institute de Droit International, which contains approximately five thousand volumes dealing with international law. The volumes date from the seventeenth century to the present and contain some especially valuable periodical files and rare books.

PUBLICATIONS OF EUROPEAN ACADEMIES

The Duke University Library has the publications of many of the European academies, containing monographs in most of the fields of knowledge and constituting important sources for the research programs of graduate students and Faculty. The sets comprise about two thousand volumes and include *Preussische Akademie der Wissenschaften* (Berlin); *Gesellschaft der Wissenschaften zu Göttingen; Sächsische Akademie der Wissenschaften* (Leipzig); *Bayerische Akademie der Wissenschaften* (Munich); *Heidelberger Akademie der Wissenschaften; Akademie der Wissenschaften* (Vienna); *Académie des sciences* (Paris); *Académie des inscriptions et belles-lettres* (Paris); *Académie des sciences morales et politiques* (Paris); *Accademia nazionale dei lincei; Accademia pontificia dei nuova lincei* (Rome); *Real academias española* (Madrid); *Academia de la historia* (Madrid); *Akademia nauk* (Leiningrad); *Dansk videnskabernes selskab* (Copenhagen); *Norsk videnskapsakademi i Oslo; Akademie van Wetenschappen* (Amsterdam); *Académie royale des sciences, des lettres et des beaux-arts de Belgique* (Brussels); *Akademija umiejetnosci* (Krakow).

NEWSPAPERS

The Library collection of newspapers contains around twelve thousand volumes. Practically all states of the Union are represented, although the major part of the collection is from along the Atlantic seaboard. Of the eighteenth-century items, the states best represented are Massachusetts, Maryland, New York, Rhode Island, Virginia, North Carolina, South Carolina, and Georgia. There is an excellent collection of nineteenth-century New England papers. The World War period is unusually strong with about twenty-eight titles practically complete for 1914-19.

There is a group of papers from Germany in the years just after the World War. Special emphasis has been placed on the Southern States, and there are numerous volumes of papers from North Carolina, South Carolina, and Virginia, representing the Colonial period, the Ante-Bellum period, and the Civil War period. The current subscription list of seventy-seven titles represents American public opinion and contains fourteen important foreign titles.

MANUSCRIPTS

The manuscript collection now contains approximately 845,000 items relating chiefly to the South Atlantic region. Most numerous are records of military, social, and economic life in the Confederate period including letters, diaries, rosters, military reports, statutes of the Confederate Congress, court records, and papers of various departments of the Confederate Government. Outstanding among the many papers providing a well-rounded picture of life in the South during the nineteenth century are original census returns of Georgia, Kentucky, Louisiana, and Tennessee for 1850 and 1860. The collection, most copious in the field of history, contains information on all phases of social and economic life as well as politics. Numerous large collections bear particularly on the history of Alabama, Georgia, North Carolina, South Carolina, and Virginia. Of interest for historical studies are the papers of P. G. T. Beauregard, John C. Calhoun, David Campbell, Robert Carter, Clement C. Clay, Henry Clay, William H. Crawford, John J. Crittenden, Jefferson Davis, Nathanael Greene, Andrew Jackson, Robert E. Lee, Alfred T. Mahan, Alexander H. Stephens, and others. The field of American literature is represented by papers of Thomas Holley Chivers, John Esten Cooke, Clara V. Dargan, Paul Hamilton Hayne, George Frederick Holmes, Alexander B. Meek, Thomas Nelson Page, Augustin L. Taveau, and Walt Whitman. Among the non-Southern materials there are interesting groups of papers centering on George Moore, the Rossettis, Robert Southey, and Tennyson. Of the medieval manuscripts, consisting chiefly of lectionaries and copies of the New Testament, one thirteenth-century New Testament in Greek is noteworthy. The library has recently acquired the official files of the Socialist Party of America extending from 1901 to 1938, and a collection of the papers of George Holyoake.

EXCHANGE PRIVILIGES WITH THE LIBRARY OF THE UNIVERSITY OF NORTH CAROLINA

The libraries of Duke Universtiy and of the University of North Carolina have completed arrangements for the fullest exchange of privileges and resources. Each library contains a catalogue of the contents of the other, and books requested from the other library are supplied through a delivery service which operates weekly. Faculty members and graduate students may secure cards admitting them to the stacks of the other library. The Library of the University of North Carolina contains

approximately 450,000 volumes, besides a large collection of manuscripts relating to Southern history. Under this arrangement more than 1,150,000 volumes are available to students in the combined libraries.

SCIENCE LABORATORIES

BIOLOGICAL LABORATORIES

The Biology Building on the West Campus contains three refrigerated rooms, an incineration room, a workshop, an aquarium room, five animal rooms connected with outside yards, and eight dark rooms. Special laboratories are provided for advanced work in plant and animal physiology, parasitology, cytology, taxonomy, bacteriology, ecology, histology, mycology, anatomy, embryology, endocrinology, entomology, forest soils, and wood anatomy and properties. A 300-acre arboretum is being developed adjacent to the campus with Dr. E. S. Harrar in charge. A greenhouse gives adequate space for experimental work and propagation. There is an herbarium of some fifty thousand specimens of all plant groups with a large representation of the Southern flora. Dr. H. J. Oosting is Curator of the Herbarium, and Dr. I. E. Gray is the Curator of the Zoological Museum. On the East Campus, laboratories are provided for undergraduate women, and there is a small greenhouse near the Science Building. Laboratories and rooms for students doing research are equipped with vacuum, compressed air, direct and alternating current, gas, and running water. Proper equipment and supplies for biological work are available.

The Duke Forest and its streams provide excellent collecting grounds. The Duke Forest is under the management of the School of Forestry. Duke University is situated in the Piedmont region, between the mountains and the coastal plains. This gives easy access to a varied flora and fauna. North Carolina is the home of the tulip poplar, holly, rhododendron, mountain laurel, flowering dogwood, several species of insect-catching plants, cypress, and other interesting plants. Among the animals are a varied assortment which range from marine to mountain species. In the woods about the University there is a great variety of animals.

The Duke Marine Laboratory at Beaufort, North Carolina, provides facilities for work on plants and animals in and near the ocean. It is situated on Piver's Island, adjacent to the Biological Laboratory of the United States Fish and Wildlife Service. Dr. A. S. Pearse is Director.

PHYSICAL LABORATORIES

The physical laboratory contains approximately an acre of floor space which is devoted to instruction and research. In addition to the usual lecture and elementary laboratory facilities, laboratories are provided for work in electrical measurements, optics, atomic physics, and advanced measurements in general physics.

Rooms are provided for various instruments of research in spectroscopy, such as a 10-foot concave grating which is used in conjunction with a 32-meter-long stainless steel pipe for study of weak absorption;

a vacuum spectrograph with a 2-meter glass grating; an apparatus for the study of the Raman spectra of gases photographed with a large 3-prism glass f 2.5 glass Zeiss spectrograph and various other spectroscopic instruments, such as the Hilger E-1, Moll microphotometer, etc.

Research facilities, such as counters, cloud chambers and ionization chambers, are available for the study of the properties of extremely high energy particles such as those present in the cosmic radiation.

A well-equipped shop operated by trained instrument makers makes possible the development of instructional and research apparatus. A shop is also provided for the use of the Staff and graduate students.

CHEMICAL LABORATORIES

Graduate work in chemistry is carried on in a modern building with a floor area of about 57,000 square feet. Of this total space a large proportion is available for research and advanced teaching. There are twenty-five double research rooms completely equipped with the usual services. In addition, a number of specially designed rooms are available for present or future research, such as a photographic room, constant temperature room, distillation room, combustion room, bomb room, and rooms equipped for dielectric constant and magnetic measurements.

A glass-blowing room and a well-equipped shop, operated by a competent mechanic, provide facilities for the construction of special apparatus and for the repair and maintenance of instruments.

MEDICAL SCHOOL

In the School of Medicine elaborate facilities are provided for post-graduate research in the various branches of medical science. The Departments of Anatomy, Bacteriology and Immunology, Biochemistry, and of Physiology, Pharmacology, and Nutrition offer certain courses and adequate research facilities to students in the Graduate School of Arts and Sciences. The use of the Duke Hosptial Library is available to all graduate students.

THE DUKE FOREST

Through placing the Duke Forest under intensive management for forestry purposes, substantial progress has been made in developing the educational work and research in forestry. The Duke Forest consists of approximately six thousand acres of land, most of which is adjacent and easily accessible to the University campus. Situated in the lower Piedmont region and composed of second-growth shortleaf pine, loblolly pine, and hardwoods, the Forest is representative of the various types of timber growth and soils found throughout the region.

The proximity of the Forest to the laboratories, greenhouses, and library facilities of the University provides an excellent opportunity for advanced study and research in forestry. Research, particularly in the fields of silvics, forest soils, silviculture, forest management, properties of wood, forest-tree physiology, and forest pathology, is well under

way. Several members of the Botany and Zoology Staffs are also engaged on research in the Duke Forest.

For additional information see the *Bulletin of the School of Forestry.*

ENCOURAGEMENT OF RESEARCH

The President of the University appoints annually a University Council on Research. The members of this Council are chosen from the Faculties of the Schools of Medicine and Law, the Divinity School, and the Graduate School of Arts and Sciences. In May of each year the Council on Research receives written applications from members of the Faculty for subsidies to be used in the following fiscal year to aid them in carrying out research projects. Stipends are granted for the employment of research assistants, for the purchase of books, and for apparatus, supplies, and equipment. Each member of the Faculty to whom a research stipend is granted must make a written report within twelve months to the Council concerning the progress of the investigation for which the stipend was allowed.

SPECIAL LECTURES

During each academic year the University Lecture Committee arranges for a number of special lectures of value to graduate students interested in various fields of knowledge. The Woman's College Lecture Series brings other guests to the campus. In addition to these lectures, a number of distinguished speakers appear each year on the programs of various schools and departments of the University.

Among the guest lecturers in 1943-44 were Lord Halifax, British Ambassador to the United States, and A. A. Berle, Assistant Secretary of State.

THE UNIVERSITY PRESS

In 1897 Trinity College began sponsoring the publication of "The Papers of the Trinity College Historical Society," which was distributed to members of the Society and on exchange to other institutions. This series was the first publishing venture of the College. In 1902, the 9019, an honor scholastic society on the campus, founded *The South Atlantic Quarterly,* which is now published by the Press.

In 1921 the Trinity College Press was established to publish the results of research engaged in by the Faculty and such other works as were approved by a board of editors appointed for the purpose. In 1925, with the acceptance of the benefaction of James B. Duke, Trinity College became one of the undergraduate colleges of Duke University, and the following year the University Press was organized to succeed the Trinity College Press.

One of the first steps of the new organization was to revive *The Hispanic American Historical Review,* which had been founded and published from 1918 to 1922 by a group of scholars interested in Hispanic America. Since 1926 its publication has been continued without inter-

ruption, and its mission has been supplemented by many studies dealing with the history, politics, and foreign relations of the Hispanic nations of the New World. In 1929 *American Literature* was begun with the co-operation of the American Literature Group of the Modern Language Association. This journal was followed in 1931 by *Ecological Monographs,* a quarterly sponsored by the Ecological Society of America, to take care of papers too long for inclusion in *Ecology. Character and Personality,* an international quarterly appearing simultaneously in the United States and Great Britain, was founded in 1932 as a medium for the publication of studies in fields related to this phase of psychology. In 1935 the Press started the publication of the *Duke Mathematical Journal,* with the co-operation of the Mathematical Association of America, and in 1937 *The Journal of Parapsychology* for the publication of the results of research in extrasensory perception and related topics. For the Southern Association of Colleges and Secondary Schools, the Press publishes *The Southern Association Quarterly,* the official organ of the Association. The Law School of Duke University sponsors *Law and Contemporary Problems,* presenting a symposium of some important legal problem in each number.

Besides its books, monographs, and regular quarterly publications the Press issues "Contributions to Psychological Theory" and "Duke University Research Studies in Education," the latter sponsored by the Department of Education of the University.

Since its organization the Press has offered to the public the products of scholarly research to the number of more than one hundred and twenty-five volumes. It has not limited its scope to any one field or to any one group of authors. In addition to the many works submitted by members of the Faculty, a great number of titles by authors without a connection with the University have been issued under the imprint of the Press.

In the broadest sense, the present policy of the Press is to give to the public any scholarly work which, because of the merit of its contents, its style, and its general value, deserves publication.

APPOINTMENTS OFFICE

The University maintains an Appointments Office, whose services are extended to all graduate students without charge. Although placement of students in employment is most frequent in the fields of high-school teaching and industrial or commercial work, graduate students interested in college teaching or other activities should register with the Office in order to make available in one center information respecting their various qualifications for the employment they seek.

GRADUATE STUDY IN THE SUMMER SESSION

The Duke University Summer Session is divided into two consecutive terms of six weeks each. In 1944 the first term begins June 20 and ends July 31; the second term begins August 1 and ends September 9. Graduate students who wish to work toward advanced degrees in the Summer

Session, particularly in Education, English, History, and Mathematics, will ordinarily find a wide selection of courses offered by members of the Duke Faculty and by visiting professors. Other departments offering sequences of work leading to the Master's degree in a series of summer terms are Botany, Economics, French, Physics, Political Science, Psychology, Sociology, Spanish, and Zoology. Students in Botany and Zoology have unusual opportunities for research and study at the Duke Marine Laboratory near Beaufort, North Carolina, besides regular course offerings at the University.

Graduate students who present more than fifteen semester hours earned in summer sessions toward the Master's degree must meet a minimum residence requirement of thirty-three weeks. No graduate student may register for more than six semester hours of credit in one summer session of six weeks. All the work presented for the Master's degree must be completed within six years from the date of beginning. Work completed earlier is not accepted toward either the course or residence requirements. Not more than one year of summer work is accepted toward the residence requirements for the Ph.D. degree.

A bulletin containing information regarding the graduate courses to be offered during the summer of 1944 may be obtained by addressing the Director of the Summer Session, Duke University, Durham, N. C. Summer Session graduate students who desire to be admitted to graduate courses to work toward advanced degrees should make application to the Dean of the Graduate School by June 1 for admission to the first summer session and by July 15 for admission to the second summer session. They should also request the registrar of the college(s) attended to send to the Dean of the Graduate School an official transcript of their undergraduate record.

COURSES OF INSTRUCTION

Unless otherwise stated, all courses listed in this catalogue will be given on the West Campus. For those courses offered on the East Campus (E) *will be inserted following the description. In general, courses with odd numbers are offered in the first semester, those with even numbers in the second semester. Some seminars bearing a single number continue throughout the year; in such cases it is indicated whether the semester hours of credit apply to the year or to each semester. All courses are offered subject to the exigencies of the war situation.*

DIVISION OF ANCIENT LANGUAGES AND LITERATURES

PROFESSOR BRANSCOMB, CHAIRMAN—101 LIBRARY; PROFESSORS PEPPLER AND ROGERS; ASSOCIATE PROFESSORS CLARK AND STINESPRING; ASSISTANT PROFESSORS GATES AND WAY; DRS. GOLDIN, ROSE, AND TRUESDALE

GREEK

Three types of courses are offered for graduate study by the Greek Department, and one representative of each type is given every year. One group of courses is devoted to extensive reading in the six departments of classical Greek literature; another deals with Greek archaeology, dialects, and inscriptions; and the third is a series of seminars covering four years. The courses of each type rotate from year to year in a fixed order for the most part. In 1944-45 the courses offered are 207-208, 247-248, and 301-302.

The requirement for admission to graduate work is four years' study of the Greek language or twenty-four semester hours of course credit. A student with fewer credits may be admitted if he has undoubted ability.

FOR SENIORS AND GRADUATES

201-202. Greek Tragedy.—6 s.h. PROFESSOR PEPPLER

203-204. Homer.—*Odyssey.* **Pindar and Bacchylides.** 6 s.h. ASSISTANT PROFESSOR WAY AND DR. TRUESDALE

205-206. Greek Historians.—6 s.h. PROFESSOR PEPPLER

207-208. Greek Orators.—6 s.h. ASSISTANT PROFESSOR WAY

209-210. Plato.—*Symposium, Protagoras,* and parts of the *Republic.* 6 s.h. ASSISTANT PROFESSOR WAY

211-212. Aristophanes.—6 s.h. PROFESSOR PEPPLER

(Only one of the six courses listed above is offered each year.)

243. Athenian Topography.—The topography and monuments of ancient Athens. 3 s.h. ASSISTANT PROFESSOR WAY

244. Greek Epigraphy.—Lectures on the history of the alphabet and the development of the local Greek alphabets, followed by extensive reading of inscriptional texts in facsimile. 3 s.h. ASSISTANT PROFESSOR WAY

245. Greek Dialects.—A linguistic study of transliterated inscriptions illustrative of the major Greek dialects. The interrelations of the dialectal forms are examined, with reference, where possible, to their origin in pro-ethnic Greek. 3 s.h. ASSISTANT PROFESSOR WAY

246. Greek Historical Inscriptions.—The more valuable historical inscriptions are read in chronological order and interpreted in their general bearing upon the course of Greek history. 3 s.h. ASSISTANT PROFESSOR WAY

247-248. Greek Archaeology.—Advanced course in the general field for Seniors and Graduates, comprising architecture, sculpture, vases, and the minor arts. **6 s.h.** ASSISTANT PROFESSOR WAY

(Of the courses numbered from 243 to 248, only two semester-courses are offered each year.)

257. Social and Cultural History of the Hellenistic World from Alexander to Augustus.—Lectures, readings, and discussion. **3 s.h.**
PROFESSOR ROGERS AND DR. TRUESDALE

FOR GRADUATES

The more advanced work of the graduate department is done in the seminar. One author or group of authors forms the center of study each year. Seminars are offered in **Aristophanes (301-302), The Greek Historians (303-304), The Attic Orators (305-306),** and **The Greek Tragic Poets (307-308).** These run through a cycle of four years. In 1944-45 the work will be:

301-302. Seminar in Aristophanes.—6 s.h. PROFESSOR PEPPLER

Graduate students of Duke University may attend the American School of Classical Studies in Athens, Greece, without charge for tuition, and they are eligible to compete for the fellowships that are offered annually by the School. These consist of two fellowships in Greek archaeology, and one in the language, literature, and history of ancient Greece, each with a stipend of $1300. They are awarded mainly on the basis of examinations held in the beginning of February of each year.

LATIN AND ROMAN STUDIES

The program of the Latin Department seeks to provide for two different kinds of student: (a) those who intend to pursue graduate study only to the attainment of the Master of Arts degree, and (b) those who desire to continue research in the field of classical studies and who contemplate working toward the degree of Doctor of Philosophy. Students of the former class should have not less than eighteen semester hours of credit in Latin, over and above the four-year high-school course in Latin or its college equivalent, and an elementary acquaintance with German and French. Students looking to the doctorate should have in addition to the above preparation at least twelve semester hours of credit in Greek and will ordinarily take their minor in Greek. They must have a reading knowledge of German and French. The ability to read Italian will also prove valuable. The Department reserves the privilege of rejecting applications of students who, while meeting these requirements literally, do not in their past record show promise of success in more advanced study.

FOR SENIORS AND GRADUATES

201. Roman Fiction.

202. Latin Christian Writers.

203-204. Roman Epic: Ennius, Vergil, Manilius, Lucan, Flaccus, Statius, Silius.—A study of this literary genre, and its development by Roman writers; extensive reading of the Roman epics. *Not offered if 205-206 is given.* **6 s.h.** (E) ASSISTANT PROFESSOR GATES

205-206. Roman Drama: Plautus, Terence, Seneca.—A rapid reading course in which five plays of Plautus, three of Terence, and two of Seneca are studied. **6 s.h.** (E) ASSISTANT PROFESSOR GATES

207-208. Roman Philosophy.

209-210. Vulgar Latin: Introduction to Romance Philology.

211-212. Roman Oratory.—A survey of the history of Roman oratory, centering about the *Brutus* of Cicero and Tacitus' *Dialogus*. **6 s.h.**
PROFESSOR ROGERS

215. Introduction to Roman Art and Archaeology.

216. Topography and Monuments of Ancient Rome.

251-252. Roman Life.

258. Social and Cultural History of the Graeco-Roman World.—The Roman Empire as the trustee of Hellenism and Christianity, and its own original contribution to modern civilization; lectures, readings, and discussions. **3 s.h.**
PROFESSOR ROGERS

281-282. Roman Historical Literature.

283-284. Roman Law.—Readings in the original sources with parallel study of modern exposition of the Roman legal system. **6 s.h.**
PROFESSOR ROGERS

FOR GRADUATES

309-310. Sight Reading and Composition.—Comprehensive reading in special fields of Roman Literature not included in other courses, with which the writing of Latin will be correlated. **6 s.h.** DR. ROSE

311-312. Latin Epigraphy.—Introduction to Latin epigraphy, with considerable practice in reading short inscriptions, *first semester;* and this is followed by a study of important historical inscriptions including the Monumentum Ancyranum, *second semester*. **6 s.h.** PROFESSOR ROGERS

Seminars: Various authors or historical periods are selected from year to year as a basis for training in criticism and research. Seminars are offered in the following: **Catullus (301-302), Roman Historians (331-332), Roman Provincial Administration (341-342), The Reign of Tiberius (343-344), Martial (351-352), Horace (361-362), Lucretius (371-372),** and **Cicero's Public Career (391-392).** The seminar planned for 1944-45 is:

341-342. Roman Provincial Administration.—6 s.h. PROFESSOR ROGERS

LINGUISTICS

FOR GRADUATES

375-376. Greek and Latin Linguistics.—A comparative study of the development of forms and flexions in Greek and Latin. **6 s.h.** DR. ROSE

385-386. Elementary Sanskrit.—An introductory course to the classical language and literature. The linguistic importance of Sanskrit will be stressed, especially with reference to Greek, Latin, and Germanic. **6 s.h.** DR. ROSE

SEMITICS

FOR SENIORS AND GRADUATES

201-202. First Hebrew.—The principles and structure of the Hebrew language, with translations of selected Old Testament narratives. **6 s.h.**
ASSOCIATE PROFESSOR STINESPRING

205-206. Elementary Arabic.—Introduction to the classical language and literature, with some attention to the modern colloquial idiom. **6 s.h.**
ASSOCIATE PROFESSOR STINESPRING

207-208. **Second Hebrew.**—Samuel or Kings the first semester; Isaiah the second. **6 s.h.** ASSOCIATE PROFESSOR STINESPRING

FOR GRADUATES

304. **Aramaic.**—A study of the Aramaic portions of the Old Testament and selected passages from the Targums, Midrashes, and Talmuds. **3 s.h.** ASSOCIATE PROFESSOR STINESPRING

305. **Third Hebrew.**—A study of late Hebrew prose, with readings from Chronicles, Ecclesiastes, and the Mishnah. Hours to be arranged. **3 s.h.** ASSOCIATE PROFESSOR STINESPRING

309. **History of the Ancient Near East.**—A survey of the early civilizations of Egypt, Palestine, Syria, and Mesopotamia in the light of Biblical archaeology. **3 s.h.** ASSOCIATE PROFESSOR STINESPRING

315. **Judaism at the Beginning of the Christian Era.**—**3 s.h.** DR. GOLDIN

RELATED COURSES IN OTHER DEPARTMENTS

Philosophy 217. Philosophy of Aristotle.—**3 s.h.** DR. MCLARTY

Religion 218. Galatians and I Corinthians.—**3 s.h.** PROFESSOR BRANSCOMB

Religion 316. Hellenistic Religions at the Beginning of the Christian Era.—**3 s.h.** ASSOCIATE PROFESSOR CLARK

Religion 318. Text of New Testament.—**3 s.h.** ASSOCIATE PROFESSOR CLARK

Religion 320. Rabbinic Literature.—Critical readings in Rabbinic Literature of the early centuries of the Christian Era. **3 s.h.** DR. GOLDIN

Under the terms of a co-operative agreement graduate students of Duke University may, with the approval of the chairman of their major department, take any graduate course offered by the Departments of Greek and Latin of the University of North Carolina by the payment of a nominal fee. A list of these courses will be sent upon request.

BOTANY

PROFFESSOR BLOMQUIST, CHAIRMAN—203 BIOLOGY BUILDING; PROFESSOR WOLF, DIRECTOR OF GRADUATE STUDIES—315 BIOLOGY BUILDING; PROFESSOR BEAL; ASSOCIATE PROFESSORS ADDOMS, HARRAR, AND KRAMER; ASSISTANT PROFESSORS ANDERSON, OOSTING, AND PERRY

For admission to candidacy for the Master of Arts degree in botany, students must have completed a minimum of at least eighteen semester hours of biological science, of which six semester hours must be in courses in botany of Junior or Senior grade. The botanical work must have been of good quality. As an additional preparatory basis, it is highly desirable that the student shall have had a year of chemistry and a year of physics. Students who have not met these requirements may be admitted provisionally and may carry courses for undergraduate credit, if permission is given by the instructor. A total of twenty-four hours of advanced courses, eighteen of which are in botany and six in the minor department, and a thesis are required for the Master of Arts degree.

FOR SENIORS AND GRADUATES

202. **Genetics.**—The principles of heredity, their cytological basis, and their bearing on other fields of biology. Laboratory work involves experimental breeding of the fruit fly and interpretation of data from the breeding

of plants. Offered in alternate years. Prerequisites: one year of botany, zoology, or equivalent, and college algebra. **4 s.h.**
ASSISTANT PROFESSOR PERRY

203. Plant Cytology.—A study of the structure and organization of plant cells in relation to growth, reproductions, and especially heredity. Offered in alternate years. Prerequisite: one year of botany. **4 s.h.**
[Not offered in 1944-45] ASSISTANT PROFESSOR ANDERSON

204. Advanced Plant Anatomy.—The structure of vegetative and reproductive organs of seed plants, including a consideration of seedling anatomy. Special reference is made to plants of economic importance. Offered in alternate years. Prerequisite: Botany 55 or equivalent. **4 s.h.**
ASSOCIATE PROFESSOR ADDOMS

216. Botanical Microtechnique.—Studies in methods of preparing temporary and permanent microscopical slides; theory of staining; the use of the microscope, especially microscopical measurements, drawing, and photomicrography, botanical photography, and lantern slides. Prerequisite: two semesters of botany. **4 s.h.** ASSOCIATE PROFESSOR ADDOMS

221. Structure and Classification of Fungi.—Prerequisite: two semesters of botany. **4 s.h.** PROFESSOR WOLF

225-226. Special Problems.—Students with adequate training may do special work in the following fields. Credits to be arranged.

(a) Bacteriology, Mycology, and Plant Pathology. PROFESSOR WOLF

(b) Cytology. ASSISTANT PROFESSOR ANDERSON
[Not offered in 1944-45]

(c) Ecology. ASSISTANT PROFESSOR OOSTING

(d) Genetics. ASSISTANT PROFESSOR PERRY

(e) Morphology and Anatomy of Higher Plants.
ASSOCIATE PROFESSORS ADDOMS AND HARRAR,
ASSISTANT PROFESSOR OOSTING

(f) Morphology and Taxonomy of Lower Groups. PROFESSOR BLOMQUIST

(g) Physiology. ASSOCIATE PROFESSORS ADDOMS AND KRAMER

(h) Plant Microchemistry. ASSOCIATE PROFESSOR ADDOMS

(i) Taxonomy of Higher Groups. PROFESSOR BLOMQUIST

252. Advanced Plant Physiology.—The physicochemical processes and conditions underlying the physiological processes of plants. Prerequisite: Botany 151 or equivalent; organic chemistry recommended. **4 s.h.**
ASSOCIATE PROFESSOR KRAMER

255. Advanced Taxonomy.—A study of the historical background of plant taxonomy, modern concepts and systems of classification, nomenclatorial problems and the taxonomy of specialized groups. Prerequisite: two years of botany, including Botany 52 or equivalent. **4 s.h.** PROFESSOR BLOMQUIST

256. Field Ecology.—An ecological survey of local vegetation, including theory and practice in the use of instruments for precise habitat studies, and analysis of community and successional relationships. Offered in alternate years. Prerequisites: Botany 1, 2 and 52, or equivalent. **4 s.h.**
ASSISTANT PROFESSOR OOSTING

FOR GRADUATES

305. Plant Geography.—The distribution and limits of vegetation types with special consideration of the plant communities of North America. Offered in alternate years. Prerequisite: Botany 156 or equivalent. **4 s.h.**
ASSISTANT PROFESSOR OOSTING

310. **Structure and Classification of Bryophytes and Pteridophytes.**—The morphological and systematic characteristics of mosses, liverworts, ferns, and fern allies. Prerequisite: two years of botany. 4 s.h. PROFESSOR BLOMQUIST

311. **Structure and Classification of Algae.**—The morphological and ecological characteristics of the common freshwater and marine species and the principles underlying their classification. Collecting, identification, and the making of permanent microscopical preparations. Prerequisite: two years of botany. 4 s.h. PROFESSOR BLOMQUIST

341. **Methods in Plant Physiology.**—The theory and use of apparatus and methods in physiological research. 4 s.h. ASSOCIATE PROFESSOR KRAMER

342. **Plant Microchemistry.**—The identification and estimation of the constituents of plant cells by the use of microchemical tests. Offered in alternate years. 2 s.h. ASSOCIATE PROFESSOR ADDOMS

359-360. **Research in Botany.**—Individual investigations in the various fields of botany. Credits to be arranged. STAFF

397-398. **General Botanical Seminar.**—One hour per week throughout the year. Required of all graduates majoring in botany. 2 s.h. STAFF

FOREST BOTANY

FOR SENIORS AND GRADUATES

224. **Forest Pathology.**—Special reference to diseases of forest trees. Prerequisites: Botany 1, 2. 3 or 4 s.h. PROFESSOR WOLF

253. **Dendrology.**—Nomenclature, classification, and identification of woody plants with special reference to species indigenous to southeastern United States and other important forest regions of temperate North America. Laboratory and field work. Prerequisite: one year of botany. 3 s.h. PROFESSOR BEAL

RELATED COURSES IN OTHER DEPARTMENTS

These related courses may be counted toward a major in botany.

Zoology 341. **Historical and Philosophical Zoology.**—2 s.h. POFESSOR HARGITT

Forestry 257. **Design of Forestry Experiments and Analysis of Data.**—5 s.h. PROFESSOR SCHUMACHER

CHEMISTRY

PROFESSOR GROSS, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—219 CHEMISTRY BUILDING; PROFESSORS BIGELOW, LONDON, VOSBURGH, AND WILSON; ASSOCIATE PROFESSORS HAUSER AND SAYLOR; ASSISTANT PROFESSORS BROWN, HILL, AND HOBBS; DR. BRADSHER

The graduate work in the Department is planned so as to provide a broad basic training in the fields of inorganic, organic, analytical, and physical chemistry. The selection of the research problem for the A.M. or Ph.D. degree determines in which field further specialization takes place.

In the requirements for the Ph.D. degree the most emphasis is placed on the successful completion, under the direction of a member of the Staff, of a research program leading to the solution of an original problem.

FOR SENIORS AND GRADUATES

215-216. **Advanced Inorganic Chemistry.**—A study of modern theories of valence and molecular structure; also of inorganic compounds, particularly the

less common types, the colloidal state of matter, and the phase rule, illustrated by suitable laboratory preparations. Prerequisites: Chemistry 70 and 151-152. Chemistry 261-262, Physics 59-60 or 213-214, and ability to read German are desirable. **6 s.h.**

ASSISTANT PROFESSOR HILL AND PROFESSOR VOSBURGH

Chemistry 233-234. Instrumental Analysis.—Experiments in the use of various physical measuring instruments in chemical analysis. Three laboratory hours. Prerequisites: Chemistry 70 and 261-262. **2 s.h.**

PROFESSOR VOSBURGH AND ASSOCIATE PROFESSOR SAYLOR

Chemistry 236. Theory of Analytical Chemistry.—A study of such topics as precision and errors, theories of precipitation and titration, oxidation and reduction, and others, illustrated by typical analytical methods, including some physicochemical methods. One lecture. Prerequisites: Chemistry 70 and 261-262. **1 s.h.**

PROFESSOR VOSBURGH

241. Physiological Chemistry.—A study of the chemistry of human physiology. Clinical aspects of the subject are treated with reference to the need of prospective medical students. Two recitations and six laboratory hours. Prerequisites: Chemistry 70 and 151-152. Course 261-262 is desirable though not required. **4 s.h.**

PROFESSOR WILSON

242. Metabolism.—Open to students who have completed course 241 or its equivalent, and who have a reading knowledge of German. Lectures and collateral reading deal with the probable fate of foodstuffs in the body, the nitrogen balance, energy requirement, nutritive ratios, vital factors, and ductless glands. The laboratory work consists mainly of blood analysis under both normal and pathological conditions. The laboratory or lectures may be taken separately. Two lectures, credit **2 s.h.**, and 6 laboratory hours, credit **2 s.h. 4 s.h.**

PROFESSOR WILSON

253-254. Advanced Organic Chemistry.—A continuation of Chemistry 151-152, including discussion of the theories of organic chemistry. The laboratory work will include qualitative organic analysis, together with preparations of the more difficult type, requiring reference to the original literature. Two lectures and three or six laboratory hours. Prerequisites: Chemistry 151-152 or equivalent and a reading knowledge of German. **6 or 8 s.h.**

PROFESSOR BIGELOW, ASSOCIATE PROFESSOR HAUSER, AND ASSISTANT PROFESSOR BROWN

261-262. Physical Chemistry.—Fundamentals of general theoretical chemistry illustrated by selected laboratory experiments. Two recitations and three laboratory hours. Prerequisites: Chemistry 70, 151-152, Physics 1-2 or equivalent, and Mathematics 8 or 51-52 are required except by special permission of the Department. In exceptional cases, and with the permission of the Department, graduate students may offer other advanced science courses in place of some of these prerequisites. Undergraduates are admitted to this course only by permission of the Director of Undergraduate Studies. **6 s.h.**

PROFESSOR GROSS, ASSOCIATE PROFESSOR SAYLOR, AND ASSISTANT PROFESSOR HOBBS

265-266. Chemical Physics. Statistical Theory, Principles and Applications.—General introduction to statistical methods and applications to chemical problems; solution theory, reaction velocity, changes of state, quantum statistics and the metallic state. Undergraduates are admitted to this course only by permission of the Director of Undergraduate Studies. Lectures, conferences, and assigned problems. **8 s.h.**

PROFESSOR LONDON

267-268. Chemical Physics. Theoretical Aspects of Atomic and Molecular Structure.—Theories of the chemical bond; atomic and molecular forces.

Undergraduates are admitted to this course only by permission of the Director of Undergraduate Studies. Lectures, conferences, and assigned problems. 8 s.h. PROFESSOR LONDON

271. **Introduction to Research.**—Lectures on the use of chemical literature, research methods, recording and publication of results, preparation of theses, and other topics. One lecture. 1 s.h.
PROFESSORS BIGELOW, GROSS, AND VOSBURGH

273-274. **Seminar.**—Required of all graduate students in chemistry. One hour a week discussion. 2 s.h.
PROFESSORS BIGELOW, GROSS, AND VOSBURGH; ASSOCIATE PROFESSORS HAUSER AND SAYLOR; ASSISTANT PROFESSORS BROWN, HILL, AND HOBBS; AND DR. BRADSHER

275-276. **Research.**—The aim of this course is to give instruction in methods used in the investigation of original problems. It is open to Seniors who have had courses 70, 151-152, and who are taking 261-262. Nine hours a week and conferences. 3 or 6 s.h.
PROFESSORS BIGELOW, GROSS, LONDON, AND VOSBURGH; ASSOCIATE PROFESSORS HAUSER AND SAYLOR; ASSISTANT PROFESSORS BROWN, HILL, AND HOBBS; AND DR. BRADSHER

FOR GRADUATES

303. **Thermodynamics.**—Fundamental laws of thermodynamics and their applications to chemistry and physics. Offered jointly by the Departments of Chemistry and Physics. 3 s.h. PROFESSORS GROSS AND SPONER

304. **Chemical Thermodynamics.**—A continuation of course 303 with emphasis on applications to chemical problems. The topics considered include chemical equilibrium, theory of solutions, reaction kinetics and dipole theory. 3 s.h. PROFESSORS GROSS AND VOSBURGH, AND ASSOCIATE PROFESSOR SAYLOR

351-352. **Advanced Synthetic Organic Chemistry.**—Recent advances in certain selected fields, such as medicinals, dyes, perfumes, terpenes, and alkaloids, will be discussed. The emphasis will be placed on structure studies and synthetic methods. Lecture or seminar one hour each week. 2 s.h.
PROFESSOR BIGELOW AND ASSOCIATE PROFESSOR HAUSER

363-364. **Advanced Physical Chemistry.**—A discussion of recent advances in particular fields such as reaction kinetics and catalysis, solutions, molecular forces and molecular structure. Prerequisites: Chemistry 261-262 or its equivalent and calculus. 6 s.h.
PROFESSORS GROSS AND VOSBURGH; ASSOCIATE PROFESSOR SAYLOR; ASSISTANT PROFESSORS HILL AND HOBBS

RELATED COURSES IN OTHER DEPARTMENTS

BIOCHEMISTRY

M241. **General Biochemistry.**—Prerequisites: general chemistry, organic chemistry, elementary physical and analytical chemistry, and at least one year of college biology. May-Aug., 1944. 6 s.h.
DRS. PERLZWEIG AND TAYLOR, AND STAFF

M242. **Biochemical Preparations.**—Prerequisite: Biochemistry M241. *Hours by arrangement.* 2 s.h. DR. TAYLOR AND STAFF

M243-244. **Physical Chemical and Colloid Chemical Principles of Biochemistry.**—Two hours per week throughout the year. DR. NEURATH

M341. Pathological Chemistry.—Two hours per week by arrangement. Prerequisites: Biochemistry M241 and Physiology M261-2.
DRS. PERLZWEIG, TAYLOR, AND M. L. C. BERNHEIM

M343. Immunochemistry.—2 s.h. DRS. MARTIN AND NEURATH

M363-364. Advanced Seminar in Nutrition.—Prerequisites: Biochemistry M241 and Physiology M261 or equivalents. Two hours weekly. 4 s.h.
DR. DANN

ECONOMICS

PROFESSOR HOOVER, CHAIRMAN—103 ADMINISTRATION BUILDING; PROFESSOR HAMILTON, DIRECTOR OF GRADUATE STUDIES—503 LIBRARY; PROFESSORS DE VYVER, RATCHFORD, SPENGLER, AND VON BECKERATH; ASSOCIATE PROFESSORS BLACK AND LESTER; ASSISTANT PROFESSORS SPRINGER AND WELFLING

A student who proposes to major in economics in his graduate work should have completed in his undergraduate program twelve semester hours of course credit in economics with a grade of "B" or better. At least five semester hours or the equivalent should represent work in Principles of Economics. In the event of a deficiency in his undergraduate preparation, the student may arrange with the Director of Graduate Studies to remove the deficiency during his first year of residence by taking prescribed courses without graduate credit.

FOR SENIORS AND GRADUATES

217. Population Problems and Resources.—A critical survey of the economic laws of returns and of pre- and post-Malthusian population theory; consideration of the relation between natural increase and the laws of economic distribution and of the effects of changes in the rate of natural increase upon various classes of industry and upon employment; examination of the factors which govern population growth and of current population trends; analysis of international economic, and political problems which are founded upon population pressure; consideration of the economic and the biological aspects of differential birth rates. 3 s.h. PROFESSOR SPENGLER

218. Business Cycles.—Description and analysis of the causes and consequences of economic rhythms and movements of various lengths (e.g., seasonal, cyclical, long-period, etc.). Analysis of methods proposed as means of curtailing such movements, or of mitigating their effects. 3 s.h.
ASSOCIATE PROFESSOR LESTER

230. Public Debts in the United States.—A study of the characteristics of public credit as shown by the experience of national, state, and local governments in the United States. Topics considered include: forms, methods, and purposes of borrowing; effects of the contraction and repayment of debts on governmental fiscal policies, the banking and credit system, and business activity; methods of controlling or limiting debts; refunding and adjustment procedures; defaults and repudiations. 3 s.h. PROFESSOR RATCHFORD

231. The Economic History of Modern Europe.—A study of the economic development of Europe, since the sixteenth century to the present, treating such topics as the guilds, mercantilism, money, banking, crises, the Industrial Revolution, the interrelationships of government and business, and the economic consequences of war. The historical backgrounds of present economic problems will be emphasized. 3 s.h. PROFESSOR HAMILTON

232. The Economic History of the United States.—A study of the agricultural, industrial, commercial, and financial progress of the United States from

Colonial times to the present day. Special attention will be devoted to mass production, business cycles, great fortunes, and the relationships between government and business. **3 s.h.** PROFESSOR HAMILTON

233. State and Local Finance.—A study of expenditures, taxation, and financial administration in state and local governments with emphasis on current problems. Special attention will be given to research methods and materials and to the financial relations between state and local governments. **3 s.h.** PROFESSOR RATCHFORD

234. Federal Finance.—A study of the expenditures, revenues, and financial administration of the government of the United States, with emphasis on current problems. Special attention given to budgetary procedure, corporate and individual income taxes, and the financial relations between federal and state governments. **3 s.h.** PROFESSOR RATCHFORD

237-238. Statistical Methods.—A study of statistical methods appropriate for dealing with problems in business and the social sciences. In addition to developing more thoroughly the subjects considered in *Business Statistics*, the following methods will be considered: simple, multiple, partial, and curvilinear correlation; curve fitting; probability; frequency distributions; and reliability of estimates. Prerequisite: Economics 138 or consent of the instructor. **6 s.h.** ASSISTANT PROFESSOR SPRINGER

239. Prices.—A theoretical and historical study of the forces governing commodity prices and wages. In 1944-45 special attention will be devoted to the control of wartime inflation and postwar deflation. **3 s.h.** PROFESSOR HAMILTON

241-242. Value and Distribution.—This course is a critical survey of the leading contemporary explanations of price formation and of the determination of interest, rent, wages, and profits. **6 s.h.** PROFESSOR SPENGLER

245. Problems of Modern Industrialism.—This course first surveys technological efficiency and market organization as limiting factors in the determination by industrial management of the rational requirements of plant organization. External political and social forces are then introduced into the complex to show modern industrialism as a phase of mature capitalism. Against the background of modern capitalism, the issue and trends of public policy with respect to economic organization in America and Europe are compared and appraised, with special emphasis on the problems of industrial demobilization and on industrial reconstruction after the war. **3 s.h.** PROFESSOR VON BECKERATH

253. Labor Problems.—An examination of present-day labor problems followed by an intensive study of methods used by employers and workers in meeting those problems. **3 s.h.** PROFESSOR DE VYVER

256. Labor Legislation.—A study of the relations of the state to labor problems with special reference to remedial legislation, to interference in labor disputes, and to social insurance. **3 s.h.** PROFESSOR DE VYVER

260. Social Insurance.—A consideration of the economic and social problems involved in workmen's compensation laws, unemployment insurance, old-age pension, and health insurance for workers. Particular attention will be given to the present federal and state social security legislation. **3 s.h.** PROFESSOR DE VYVER

265. International Trade and Tariff Policies.—An analysis of the theoretical principles underlying international trade with an historical study of the foreign trade and tariff policies of the United States, France, Germany, and England from the eighteenth century to the present. In addition, the course will take up possible conditions under which international trade may be resumed after this war and the organizational framework within which world trade must be resumed. **3 s.h.** PROFESSOR VON BECKERATH

266. International Finance.—A study of the mechanism of international payment with attention to international movements of capital, the peculiarities of an inconvertible paper money regime, and related problems. **3 s.h.**
ASSOCIATE PROFESSOR LESTER

268. Competitive versus Monopolistic Enterprise.—(1) Competition as an economic order; (2) competition as a political order; (3) monopoly as a disturbance of (1) and of (2). (4) What can government do for the maintenance of the competitive order? (5) What can the judiciary do for the maintenance of the competitive order? (6) What can business do for the maintenance of the competitive order? (7) Limits and difficulties of a liberal solution. (8) The effects of war on competition and private enterprise. (9) The role of large-scale industry and small-scale industry in the social economy after the war. Comparison of American, English, and Continental European viewpoints. **3 s.h.** PROFESSOR VON BECKERATH

270. Economics of War.—A study of the economic causes of war; the economic problems of neutrals; transition from a peace to a war economy; the cost of war and national defense; war finance through taxes, loans, and inflation; price and wage controls; rationing and priorities; the allocation of labor and resources; restrictions on shipping and exchange; the technique and results of economic warfare; war and technology; demobilization and unemployment; the return to a peace economy; debts, reparations, and indemnities; and postwar depressions. **3 s.h.** PROFESSORS HAMILTON AND VON BECKERATH

275-276. Advanced Industrial Accounting and Management.—This course traces the ways and means of executive control through statistics and industrial accountancy. Emphasis is put upon the economics of overhead costs. A complete practice set of cost accounting is worked by each student during the course. Courses 57-58 and 105 are ordinarily prerequisites for this course. **6 s.h.** ASSOCIATE PROFESSOR BLACK

FOR GRADUATES

311-312. History of Political Economy.—This course traces the development of economic theory, giving special attention to the various schools of economic thought in England, France, Germany, Italy, and the United States. A large amount of collateral reading in the works of typical authors is required. Lectures and class discussions. **6 s.h.** PROFESSOR HAMILTON

313-314. Seminar in Economic Theory.—The course consists of directed research in economic theory. The primary purpose is the correction of authoritative eclecticism and its replacement by individually integrated theory. Prerequisite: Economics 241-242 or its equivalent. **6 s.h.** PROFESSOR HOOVER

315. Economic Systems.—A study of alternative economic systems. In addition to an analysis of communism, anarchism, and the variants of socialism, the course will include a consideration of other proposed modifications of the existing economic order. Credit for this course will be given only if the student takes Economics 316. **3 s.h.** PROFESSOR HOOVER

316. Ecnomic Functions of the State.—A consideration of the primary and secondary economic functions of government and of the legislation which provides for the performance of these functions, such as social legislation and the regulation of commerce and industry. Prerequisite: Economics 315 or its equivalent. **3 s.h.** PROFESSOR HOOVER

318. General Seminar in Economics.—All graduate students with economics as a major subject are members of this seminar. Reports of progress in research will be made, and there will be lectures and critical discussion by members of the Department. Year course. No credit. STAFF

RELATED COURSES IN OTHER DEPARTMENTS

Attention is called to the following courses in related departments:

Forestry 279. Economics of Forestry.—3 s.h. PROFESSOR WACKERMAN

History 219-220. The History of the European Proletariat.—6 s.h. [Not offered in 1944-45] PROFESSOR CARROLL

Political Science 207. American Constitutional Law and Theory.—3 s.h. PROFESSOR WILSON

EDUCATION

PROFESSOR HOLTON, CHAIRMAN—104 PAGE AUDITORIUM; PROFESSOR BROWNELL, DIRECTOR OF GRADUATE STUDIES—1C WEST DUKE BUILDING; PROFESSORS CARR, CHILDS, AND PROCTOR; ASSOCIATE PROFESSOR SCATES; ASSISTANT PROFESSOR EASLEY; VISITING ASSISTANT PROFESSOR VAN ALSTYNE

The Department offers a full major of work in educational psychology toward the degree of Doctor of Philosophy, with approved minors in as many as two of the divisions listed for the Master's degree, and an approved minor in psychology or in some other department offering work closely related to the thesis problem of the candidate. It is planned to offer complete majors in other divisions as rapidly as the growth of the Department justifies.

The Department offers work toward the Master of Arts and Master of Education degrees, and minor work toward the Doctor of Philosophy degree, in the divisions of elementary education, experimental education and educational psychology, history and philosophy of education, public school administration, and secondary education and educational sociology. It is important for students who are degree candidates to choose their course according to some unified plan; they are reminded that mere accumulation of more or less unrelated courses in various divisions with minor work in some department only remotely related to the student's major work does not lead to a graduate degree. Every candidate for a Master's degree should elect at least six, and preferably twelve, semester hours of course work in the special division in which he intends to write his thesis. Students who expect to write theses in the history of education are required to take their minor work in American history. Students writing in school administration are advised to elect minor work in economics and political science. Students in educational psychology should elect their minor work in psychology. No student, except by special approval of the Department and of the Graduate School, is permitted to take minor work in more than one department or to the amount of more than six semester hours.

Candidates for the M.Ed. degree are required to take the four basic courses Education 300, 304, 305, and 317. Besides earning credit in these courses in the usual way, they must also, toward the end of their residence, take a comprehensive examination on the content and interrelationships among these courses. Exceptions are allowed (1) in the case of students who can by examination demonstrate satisfactory knowledge of not more than two of these courses and (2) in the case of students who write M.Ed. theses. (See page 29 of this bulletin.)

For admission to candidacy for the Master of Arts (A.M.) degree with major in Education, or for the Master of Education (M.Ed.) degree, students must, in addition to meeting the general requirements for admission to the Graduate School, meet the following specific requirements (1) eighteen semester hours of acceptable prior work in Education; (2) twelve semester hours of acceptable prior work in a minor field (exception: if psychology or sociology is offered for the minor, six semester hours of work completed after entering the junior year in college will be accepted). In addition, to be accepted as candi-

dates for the degree of M.Ed., whether with thesis or without, students must (3) make an acceptable score on a test of general ability and (4) show by examination that they are able to write good English.

ELEMENTARY EDUCATION

FOR SENIORS AND GRADUATES

207. Technique of Teaching.—An advanced course in the teaching process, dealing with the theory underlying sound technique and applied specifically to the work of the elementary school. **3 s.h.** (E) PROFESSOR CARR
[Not offered in 1944-45]

212. Psychology of the Elementary School Subjects.—A study of the psychology of learning as applied to teaching the common school subjects. **3 s.h.** (E) PROFESSOR CARR

222. The Curriculum and Materials of the Elementary Grades.—A study of curriculum problems in the elementary schools. **3 s.h.** (E) PROFESSOR CARR

232. Elementary School Supervision.—A survey of supervision as a means of improving instruction and adapting the curriculum to child and community needs. **3 s.h.** (E) PROFESSOR CARR
[Not offered in 1944-45]

FOR GRADUATES

305. The Nature, Function, and Reorganization of the Curriculum.—One of the required courses for the Master of Education degree. Selected problems guiding the reading of students. **3 s.h.** PROFESSOR CARR

EXPERIMENTAL EDUCATION AND EDUCATIONAL PSYCHOLOGY

FOR SENIORS AND GRADUATES

208A. Mental Tests and Applications.—A study of the development of intelligence testing, the concept of general intelligence, various recent applications of mental tests, and training in the giving of individual tests. Prerequisite: course 258 or six semester hours of other work in educational psychology or psychology. *First semester.* **3 s.h.** (E) ASSISTANT PROFESSOR VAN ALSTYNE

208B. Practicum.—Open only to students approved by the instructor. *Second semester.* **2 s.h.** (E) ASSISTANT PROFESSOR VAN ALSTYNE

209. Statistical Methods Applied to Education.—A study of statistical methods of treating educational and social data designed to enable teachers or administrators to interpret and use the results of scientific investigations in education. **2 s.h.** (E) ASSOCIATE PROFESSOR SCATES

216. Psychological Principles of Secondary Education.—A study of adolescence and the psychology of learning as applied to teaching the principal high-school subjects. **3 s.h.** (E) PROFESSOR CHILDS
[Not offered in 1944-45]

218. Educational Implications of Genetic Psychology.—A study of the development of the individual through the stages of growth and learning, with emphasis upon early and later childhood; the development of such behavior patterns as play, language, etc.; the process of socialization, etc. Prerequisite: six semester hours of psychology or educational psychology. **3 s.h.** (E)
PROFESSOR BROWNELL

219. Experimental Education.—This course is designed to provide training (1) in planning, (2) in prosecuting, and (3) in reporting quantitative investigations in the field of education, more especially in the field of learning and teaching the various school subjects. **3 s.h.** (E)
PROFESSOR BROWNELL

227. **The Psychology of Learning: Problems.**—The major problems related to the learning process will be examined, with the experimental literature bearing on them. The curves of learning and forgetting, the distribution of practice, economical methods of learning, and the transfer of training will be the major topics considered. **3 s.h.** (E) ASSISTANT PROFESSOR EASLEY
[Not offered in 1944-45]

228. **The Psychology of Learning: Theoretical and Experimental.**—In this semester the laws of learning, the most important explanatory principles, and the major systems of psychology of learning will be considered. Class experiments will run throughout the semester. Prerequisite: course 227 or its equivalent. **3 s.h.** (E) ASSISTANT PROFESSOR EASLEY
[Not offered in 1944-45]

237. **Investigations in Reading.**—A summary of the results of the more important scientific studies in reading; interpretation of the results in terms of aims, methods, materials of instruction, testing, diagnosis, and supervision; emphasis on problems requiring further investigation. **3 s.h.** (E)
PROFESSOR CARR

247. **Investigations in Arithmetic.**—An analytical survey of investigations in arithmetic, with three purposes in view: (1) to examine the techniques employed with respect to their adequacy as means of solving the problems attacked; (2) to test the validity of the results announced and the values of these results for the teaching of arithmetic; (3) to locate further problems in arithmetic in need of scientific research. *Second semester.* **3 s.h.** (E)
PROFESSOR BROWNELL

258. **Educational Measurements.**—A critical study of the principles and techniques involved in measurement in education, with opportunity for individual research. Prerequisite: twelve semester hours in the Department, including a course in educational psychology. **3 s.h.** (E)
ASSOCIATE PROFESSOR SCATES

FOR GRADUATES

307-308. **Seminar in Educational Psychology.**—Required of graduate students in educational psychology. **4 s.h.** (E) PROFESSOR BROWNELL
[Not offered in 1944-45]

309-310. **Research in Educational Psychology.**—This course provides opportunity for more advanced graduate students to engage in individual research projects under close supervision. Credit allowed proportionate to achievement and time devoted to the course. Enrollment by permission of instructor only. **3 to 6 s.h.** (E) PROFESSOR BROWNELL

317. **The Psychological Principles of Education.**—An advanced study of teaching, learning, and the learner. This is one of the courses required for the Master of Education degree. Selected problems guiding the reading of students will be discussed in class. **3 s.h.** PROFESSOR BROWNELL

320. **Advanced Educational Statistics.**—This course continues the work begun in Education 209, dealing particularly with further methods of correlation and with various applications to the theory of measurement. The course does not require a background of mathematics beyond high-school algebra. **3 s.h.** ASSOCIATE PROFESSOR SCATES

338. **Research in Reading.**—A course designed for students who have original problems in reading which they desire to investigate. Such studies may be either individual or co-operative. Education 237 is advised as a preliminary course, but is not required. **3 s.h.** PROFESSOR CARR
[Not offered in 1944-45]

339. **Research Course in Educational Tests.**—A study of problems in the construction and interpretation of tests. Prerequisite: the equivalent of course 258. 3 s.h. ASSOCIATE PROFESSOR SCATES

348. **Research in Arithmetic.**—A course designed for students who have original problems in arithmetic which they desire to investigate. Such studies may be either individual or co-operative. Education 247 is advised as a preliminary course, but is not required. 3 s.h. PROFESSOR BROWNELL
[Not offered in 1944-45]

HISTORY AND PHILOSOPHY OF EDUCATION

FOR SENIORS AND GRADUATES

200. **Introduction to the Philosophy of Education.**—A consideration of fundamental concepts underlying educational theory. 3 s.h. PROFESSOR HOLTON
[Not offered in 1944-45]

214. **History of Education in the United States.**—A study of the development of the American public school and the interaction of higher education and the public school. 3 s.h. PROFESSOR HOLTON
[Not offered in 1944-45]

244. **Studies in the Historical Development of Public School Administration.**—An advanced course devoted to the development of public school administration in the South, with especial reference to North Carolina as a type. 3 s.h. PROFESSOR HOLTON
[Not offered in 1944-45]

254. **History of Secondary Education in the United States.**—A study of historical and comparative conceptions of the secondary school, changes in American life affecting the secondary school, present status of the secondary school, current tendencies toward expansion, and the problem of state and federal aid. 3 s.h. PROFESSOR PROCTOR

264. **Recent Movements in American Education.**—An intensive study of educational thought and practice since 1900. 3 s.h. PROFESSOR HOLTON

294. **Comparative Education: Recent Movements in European Educational Systems.**—A comparative study of the school systems of the principal countries of Europe, with emphasis upon changes since the World War. 3 s.h.
[Not offered in 1944-45] PROFESSOR CARR

304. **The School as an Institution.**—The place of the school in society, its history and philosophy. This is one of the courses required for the Master of Education degree. Selected problems guiding the reading of students will be discussed in class. 3 s.h. PROFESSOR HOLTON

PUBLIC SCHOOL ADMINISTRATION

FOR SENIORS AND GRADUATES

203. **Principles of School Administration.**—The fundamental facts and procedures of school administration, an analysis of the problems and policies of the organization and direction of a local school system, and the functions of the various school officials. Prerequisite: Education 103 and 58, or six semester hours of equivalent work in education. 3 s.h. PROFESSOR PROCTOR
[Not offered in 1944-45]

213. **Problems in the Organization and Administration of the Elementary School.**—A study of the work of the elementary school principal. 3 s.h.
PROFESSOR PROCTOR

233. **Administrative Pupil-Accounting.**—An advanced study of gradation and classification of pupils, with incidental attention to the keeping of records and the making of reports. The study includes a consideration of individual differences, promotions, acceleration, and retardation of pupils; the various plans for classification and gradation; interpreting the results of tests; and some practice in the computation of statistical measures. *Second semester.* **3 s.h.** PROFESSOR PROCTOR

234. **Secondary School Organization and Administration.**—A study of the outstanding problems of secondary school organization and administration other than the problem of gradation and classification of pupils. *First semester.* **3 s.h.** PROFESSOR PROCTOR

253. **Legal Phases of School Administration.**—A study of judicial decisions and the development of outstanding features of statute law controlling school administration, with special emphasis upon North Carolina materials. **3 s.h.** PROFESSOR HOLTON
[Not offered in 1944-45]

FOR GRADUATES

323. **Public School Finance.**—A study of educational costs, sources of revenue for the support of public education, collection of revenue, basis of distribution, and accounting for funds spent. *Second semester.* **3 s.h.**
[Not offered in 1944-45] PROFESSOR PROCTOR

343. **State and County School Administration.**—A study of state and county organization of public schools, emphasizing underlying principles. *Second semester.* **3 s.h.** PROFESSOR PROCTOR
[Not offered in 1944-45]

363. **City School Administration.**—A study of the organization and administration of city school systems, including administrative phases of supervision. **3 s.h.** PROFESSOR PROCTOR
[Not offered in 1944-45]

SECONDARY EDUCATION AND EDUCATIONAL SOCIOLOGY

FOR SENIORS AND GRADUATES

205. **Curriculum Problems in Secondary Education.**—A consideration of the aims and objectives of secondary school subjects, emphasizing practical problems of curriculum-making in the high school. **3 s.h.** PROFESSOR CHILDS

206. **Sociological Foundations of the Secondary School Subjects.**—A consideration of the aims and objectives of the secondary school. Prerequisites: six semester hours in education, including course 105. *First semester.* **3 s.h.** (E) PROFESSOR CHILDS
[Not offered in 1944-45]

215. **Educational and Vocational Guidance.**—A survey of the literature on guidance with special reference to secondary education; a critical study of the principles and techniques used in guidance; an attempt to locate the problems most urgently in need of solution. Prerequisite: twelve semester hours in the Department, including course 105 or course 206. *Second semester.* **3 s.h.** (E) PROFESSOR CHILDS

225. **The Teaching of History and the Social Studies.**—Identical with History 211. The course counts as an elective in the Department of Education only when approved by the Department and the instructor. **3 s.h.** ASSOCIATE PROFESSOR MANCHESTER

246. **The Teaching of Mathematics.**—Identical with Mathematics 204. The course counts as an elective in the Department of Education only when approved by the Department and the instructor. 3 s.h. (E) PROFESSOR RANKIN
[Not offered unless justified by enrollment]

266. **The Teaching of High-School French.**—Identical with French 218. *First semester.* 3 s.h. PROFESSOR WEBB

METHODOLOGY OF RESEARCH

FOR GRADUATES

300. **Methods of Educational Research: Seminar.**—Graduate students are instructed in methods of research as applied to selected educational problems. This is one of the courses required for the Master of Education degree. Each student must select for intensive study and practice a subject in which he is interested. 3 s.h. MEMBERS OF THE DEPARTMENT

RELATED COURSES IN OTHER DEPARTMENTS

FOR MAJORS IN EDUCATIONAL PSYCHOLOGY, ELEMENTARY EDUCATION, AND SECONDARY EDUCATION

Psychology 206. Social Psychology.—3 s.h. ASSOCIATE PROFESSOR ADAMS
[First semester only]

Psychology 209. Experimental Methods in Human Psychology.—4 s.h.
ASSOCIATE PROFESSOR ZENER

Psychology 212. Physiological Psychology.—3 s.h.
[Not offered in 1944-45] ASSISTANT PROFESSOR KEMP

Psychology 215. Developmental Psychology.—3 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR ADAMS

Psychology 226. Contemporary Schools of Psychology.—3 s.h.
ASSOCIATE PROFESSOR ZENER

Psychology 306. Seminar in Child Psychology.—2 or 3 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR ADAMS

Psychology 309. Theory of Learning.—3 s.h. ASSOCIATE PROFESSOR ADAMS
[Not offered in 1944-45]

Sociology 212. Child Welfare.—3 s.h. PROFESSOR JENSEN
[Not offered in 1944-45]

Sociology 213. Constructive Social Policies.—2 s.h. PROFESSOR JENSEN
[Not offered in 1944-45]

Sociology 319. Principles of Sociology.—3 s.h. PROFESSOR JENSEN
[Not offered in 1944-45]

Sociology 320. History of Social Philosophy.—3 s.h. PROFESSOR JENSEN

FOR MAJORS IN PUBLIC SCHOOL ADMINISTRATION

Economics 230. Public Debts in the United States.—3 s.h.
PROFESSOR RATCHFORD

Political Science 209. State and Local Government in the United States.—3 s.h. PROFESSOR RANKIN

Political Science 291. Municipal Government.—3 s.h. PROFESSOR RANKIN

Sociology 213. Constructive Social Policies.—2 s.h. PROFESSOR JENSEN
[Not offered in 1944-45]

FOR MAJORS IN HISTORY AND PHILOSOPHY OF EDUCATION

History 209-210. Constitutional History of the United States, 1763-1860.—6 s.h. ASSISTANT PROFESSOR STILL
[Not offered in 1944-45]

Philosophy 205. The Philosophy of History.—3 s.h. PROFESSOR WIDGERY

Philosophy 208. Political Philosophy.—3 s.h. ASSOCIATE PROFESSOR MORGAN

Philosophy 223. Contemporary Philosophy.—*Second semester.* **3 s.h.** PROFESSOOR WIDGERY

Religion 291. Christian Ethics I.—3 s.h. PROFESSOR SMITH

Religion 292. Christian Ethics II.—3 s.h. PROFESSOR SMITH

Religion 393. Religious Thought in Colonial America.—3 s.h. PROFESSOR SMITH

Religion 394. Religious Thought in Modern America.—3 s.h. PROFESSOR SMITH

Sociology 319. Principles of Sociology.—3 s.h. PROFESSOR JENSEN
[Not offered in 1944-45]

Sociology 320. History of Social Philosophy.—3 s.h. PROFESSOR JENSEN

ENGLISH

PROFESSOR WHITE, CHAIRMAN—2G5 WEST DUKE BUILDING; PROFESSOR HUBBELL, DIRECTOR OF GRADUATE STUDIES—105 EAST DUKE BUILDING; PROFESSORS BAUM, GILBERT, GOHDES, AND IRVING; ASSOCIATE PROFESSOR WARD; ASSISTANT PROFESSOR TALBERT

All graduate students in English must pass a qualifying examination before they will be admitted to candidacy for a degree. This examination is given at the beginning of the autumn semester and must be taken at that time by all new students. Those who do not pass will not be accepted as candidates for a degree during the year in which they fail, but they may take the examination offered to graduate students entering at the opening of the first term of the following Summer Session.

Candidates for the degree of Master of Arts are required to elect 203-204 (3 or 6 s.h.). They will also elect one of the period courses (209 and 210, 215-216, 219-220, 221-222, 223-224, 229-230, 233-234) and its corresponding seminar (349); and 12 (or 9) additional semester hours.

201-202. Anglo-Saxon.—In the first semester, an introduction to the language, with the reading of selected prose and of some of the shorter poems; in the second semester, the *Beowulf.* **6 s.h.** (E) PROFESSOR BAUM

203-204. Chaucer.—Reading and interpretation of the text; in the first semester, the principal *Canterbury Tales;* in the second, the *Troilus* and the minor poems. A reading report and a term paper. **6 s.h.** (E) PROFESSOR BAUM

205-206. Middle English.—Close study of selected texts, with attention to the development of the language and to the history of the literature from 1200 to 1400. A term paper each semester. **6 s.h.** (E) PROFESSOR BAUM
[Not offered in 1944-45]

207-208. **English Literature, 1400-1550.**—A survey of the period, with a study of some of the special problems. **6 s.h.** (E) PROFESSOR BAUM
[Not offered in 1944-45]

209. **English Literature Other than Drama, 1550-1625.**—A study of the principal authors (Sidney, Spenser, Donne, Bacon) and the prevailing types (sonnet, pastoral, epigram, etc.). Lectures, written and oral reports, and a term paper. **3 s.h.** (E) PROFESSOR GILBERT

210. **English Literature Other than Drama, 1625-1700.**—The Metaphysical Poets, Cowley, Dryden, Butler, and the minor poets of the Restoration; and the prose of Browne, Burton, the Character Writers, Cowley, Dryden, Halifax, and Temple. Lectures and short reports. **3 s.h.** (E)
ASSOCIATE PROFESSOR WARD

215-216. **Elizabethan Drama.**—Careful study of one or two major dramatists (Jonson or Beaumont and Fletcher) and extensive reading in the other writers (Heywood, Ford, Massinger, Marlowe, Middleton) with emphasis on the nature and qualities of their work in relation to its historical background. Exposition of plays, reports, and a term paper each semester. **6 s.h.** (E) PROFESSOR GILBERT AND ASSISTANT PROFESSOR TALBERT

219-220. **The Eighteenth Century.**—Swift, Pope, Defoe, Addison, Steele, and others are studied in the first semester; in the second, Gray, Johnson, Boswell, Goldsmith, the letter writers, and the early Romantic poets. Lectures, oral reports, and a term paper each semester. **6 s.h.** (E)
PROFESSOR IRVING

221-222. **English Literature of the Early Nineteenth Century.**—A survey of the principal writers and literary monuments from 1798 to 1830; in the first semester principally Wordsworth, Coleridge, and Lamb; in the second, Shelley, Byron, Keats, and Hazlitt. Occasional lectures, frequent classroom discussions of reading assignments, written and oral reports, and a term paper each semester. **6 s.h.** (E) PROFESSOR WHITE

223-224. **English Literature of the Later Nineteenth Century.**—Some of the most important works of the period are discussed in class; the background is filled in by lectures and assigned reading. The first semester is devoted chiefly to Carlyle, Dickens, Thackeray, Tennyson, and Browning; the second semester to Arnold, Ruskin, Pater, George Eliot, Meredith, the Pre-Raphaelites, and Swinburne. A term paper each semester. **6 s.h.** (E) PROFESSOR BAUM
[In 1944-45 only 224 is offered]

227. **Literary Criticism.**—A study of the Greek and Roman critics, in chronological order but with emphasis on their permanent value rather than on the mere history; also of the Continental and English critics to about 1700. Lectures, reports, and a term paper. **3 s.h.** (E) PROFESSOR GILBERT

220-230. **American Literature, 1800-1870.**—The writers emphasized in the first semester are Emerson, Thoreau, and Hawthorne; in the second semester, Poe and Melville. In the first semester some attention is given also to Edwards, Franklin, Bryant, Longfellow, Holmes, Whittier, Lowell, and Parkman; and in the second semester, to Byrd, Jefferson, Freneau, Brown, Irving, Cooper, Kennedy, Simms, Timrod, and Lincoln. An oral report and a term paper each semester. **6 s.h.** (E) PROFESSOR HUBBELL

231-232. **Special Studies in American Literature.**—An intensive study of Emerson's essays and poems in the first semester; and in the second, of Whitman's *Leaves of Grass*, with some examples of his prose. Lectures and discussions, with one test and one term paper each semester. **6 s.h.** (E)
PROFESSOR GOHDES

[In 1944-45 only 232 (Whitman) will be offered; it will be given in the first semester.]

233-234. **American Literature since 1870.**—Selected works of the chief writers of the period, including Whitman, Lanier, Mark Twain, James, Howells, Emily Dickinson, Crane, Dreiser, and others. The lectures deal with the social background and with the careers of the leading authors. One test and one term paper each semester. **6 s.h.** (E) PROFESSOR GOHDES

237. **English Drama, 1642-1800.**—The Heroic Play and the Comedy of Manners of the Restoration period; and the important plays, serious and comic, of the eighteenth century. Lectures, class discussions, and short reports. **3 s.h.** (E) ASSOCIATE PROFESSOR WARD

247-248. **American Literature of the Colonial Period.—6 s.h.**
[Not offered in 1944-45]

269. **Southern Literature.**—The principal writers discussed are Byrd, Jefferson, Wirt, Kennedy, the Cooke brothers, Legaré, Simms, Timrod, Hayne, Longstreet and other humorists, and the poets of the Civil War. Considerable attention is paid to the historical and cultural background and to Northern and British authors who wrote about the South. An oral report and a term paper. **3 s.h.** (E) PROFESSOR HUBBELL
[Not offered in 1944-45]

FOR GRADUATES

349. **Seminar Courses.**—Special study of a single author, with an introduction to bibliography and methods of research. One of these courses is required of all candidates for the degree of Master of Arts. **3 s.h.** (E)

(a) **Shakespeare.** ASSISTANT PROFESSOR TALBERT
(b) **Milton, or Spenser.** PROFESSOR GILBERT
(c) **Dryden.** ASSOCIATE PROFESSOR WARD
(d) **Pope, or Johnson.** PROFESSOR IRVING
(e) **Shelley, or Wordsworth, or Byron.** PROFESSOR WHITE
(f) **Arnold, or Tennyson.** PROFESSOR BAUM
(g) **Poe, or Hawthorne.** PROFESSOR HUBBELL
(h) **Emerson, or Whitman.** PROFESSOR GOHDES

In 1944-45, **349b** and **349f** will be offered in the first semester; **349e** and **349g** in the second semester.

359-360. **Research Courses.**—Opportunity for advanced study; intended specially for candidates for the Ph.D. degree. **3 or 6 s.h.** (E)

(a) **The Early Language and Literature.** PROFESSOR BAUM
(b) **Elizabethan Literature.** PROFESSOR GILBERT
(c) **The Seventeenth Century.** PROFESSOR GILBERT AND ASSOCIATE PROFESSOR WARD
(d) **The Eighteenth Century.** PROFESSOR IRVING
(e) **The Early Nineteenth Century.** PROFESSOR WHITE
(f) **The Later Nineteenth Century.** PROFESSOR BAUM
(g) **American Literature to 1870.** PROFESSOR HUBBELL
(h) **American Literature since 1870.** PROFESSOR GOHDES

400. **Special Studies.**—Research or special study, under supervision, may be arranged for Ph.D. candidates whose needs are not otherwise met. This course is given in any semester when authorized by the Director of Graduate

Studies and the Dean of the Graduate School. A brief report on the type of work done under supervision must be filed by the professor in charge in order for credit to be given by the Graduate Office. Hours and credits to be arranged. MEMBERS OF THE GRADUATE STAFF

RELATED COURSES IN OTHER DEPARTMENTS

The attention of students in English is directed to the following courses:

German 301-302. Gothic-Middle High German.—6 s.h. PROFESSOR VOLLMER

Greek 201-202. Greek Tragedy.—6 s.h. PROFESSOR PEPPLER

History 221-222. The Age of the Renaissance.—6 s.h. ASSOCIATE PROFESSOR NELSON

History 223-234. Medieval Institutions and Culture.—6 s.h. ASSOCIATE PROFESSOR QUYNN

History 337. Social and Economic Life of the Old South.—4 s.h. PROFESSOR SYDNOR

Philosophy 201-202. The Philosophy of Art.—6 s.h. (E) PROFESSOR GILBERT

Philosophy 213-214. History of Aesthetics.—6 s.h. (E) PROFESSOR GILBERT

Psychology 202. Psychology of Aesthetics.—3 s.h. PROFESSOR LUNDHOLM [Not offered in 1944-45]

Romance Languages 219. Old French—3 s.h. PROFESSOR COWPER

FORESTRY

PROFESSOR KORSTIAN, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—FEW QUADRANGLE, HOUSE GG-010; PROFESSORS BEAL, SCHUMACHER, WACKERMAN, AND WOLF; ASSOCIATE PROFESSORS COILE, HARRAR, KRAMER, MAUGHAN, AND THOMSON

Major and minor work is offered in the more scientific aspects of forestry leading to the Master of Arts and Doctor of Philosophy degrees to students who have received degrees from professional schools of forestry of recognized standing or from approved colleges or universities. Work for these degrees may be pursued only in forest-tree physiology, wood anatomy and properties, forest pathology, silvics, forest soils, forest mensuration, forest management, forest entomology, and forest economics, except that a major cannot be taken in forest management. College graduates who have had specialized training in botany or soil science and in allied basic subjects, such as physics, chemistry, geology, and zoology, may pursue graduate study and research only in the specialized fields for which their previous work has qualified them. Students who do not have previous training in forestry will be required to complete a minimum of thirty semester hours of approved work in the Division of Forestry as a preliminary requirement for admission to candidacy for the A.M. and Ph.D. degrees. These men will not be regarded as professionally trained foresters. For information on professional training in forestry, see *Bulletin of the School of Forestry.*

FOR SENIORS AND GRADUATES

224. Forest Pathology.—Special reference to diseases of forest trees. Prerequisites: Botany 1 and 2, and Forestry 253, or equivalents. 4 s.h. PROFESSOR WOLF

231. Forest Entomology.—Morphology, general classification, life histories, and control of insects injurious to forest trees, logs, and lumber. 3 s.h. PROFESSOR BEAL

251. Sampling Methods in Forestry.—Statistical background for solution of sampling problems with special reference to sample inventory of a forest property. Prerequisite: Forestry S151. 2 s.h. PROFESSOR SCHUMACHER

252. **Forest Mensuration.**—Empirical equations and curve fitting appropriate for construction of timber yield tables, tree volume and taper tables; significance tests and graphical solution of equations. Assignments require operation of calculating machines. Prerequisite: Forestry 251. **2 s.h.**
PROFESSOR SCHUMACHER

253. **Dendrology.**—Nomenclature, classification, and identification of woody plants with special reference to species indigenous to southeastern United States and other important forest regions of temperate North America. Laboratory and field work. Prerequisite: one year of botany. **3 s.h.**
PROFESSOR BEAL

257. **Design of Forestry Experiments and Analysis of Data.**—Role of experimental design in field and laboratory, and statistical analysis of data as aspects of scientific method in forest research. **5 s.h.**
PROFESSOR SCHUMACHER

259. **Wood Anatomy and Properties.**—Anatomical, chemical, and nonmechanical physical properties of wood; macroscopic and microscopic identification of more important woods of the United States. Prerequisites: one year of botany and Chemistry 1 and 2, or equivalents. **3 s.h.**
[Not offered in 1944-45] ASSOCIATE PROFESSOR HARRAR

261. **Forest Soils.**—Origin, development, and classification of soils with special emphasis on those developed in climates supporting forests; morphological, physical, and chemical properties of soils in relation to growth of trees; field identification, field sampling, laboratory analysis, and interpretation of field and laboratory observations; interrelationships of soil and forest cover. Prerequisites: Chemistry 1 and 2, and Physics 1, or equivalents; physical geology and analytical chemistry are also desirable. **3 s.h.**
[Not offered in 1944-45] ASSOCIATE PROFESSOR COILE

264. **Silvics.**—Ecological foundations of silviculture with special reference to forest site factors; influence of forests on their environment; growth and development of trees and stands; origin, development, and classification of forest communities; methods of studying forest environments. Desirable prerequisites: plant physiology, plant ecology, and Forestry 253 and 261, or equivalents. **3 s.h.** PROFESSOR KORSTIAN

276. **Forest Policy.**—Critical study of forestry movement and development of a forest policy, particularly in the United States; brief résumé of forestry in important foreign countries; public land laws of the United States; development of federal and state forestry; forestry laws. **2 s.h.**
[Not offered in 1944-45] ASSOCIATE PROFESSOR THOMSON

279. **Economics of Forestry.**—Principles of forest economics. Economic and social values of forests; forest resources and wood requirements; economics of wood production and consumption; prices of forest products; forestry and public finance; forestry and land use; forestry credit; forest fire insurance; forestry as a private business enterprise. Prerequisite: at least one course in the principles of economics. **3 s.h.** PROFESSOR WACKERMAN

FOR GRADUATES

323-324. **Advanced Forest Pathology.**—Advanced study and research on life histories and control of diseases of forest trees to meet individual needs of graduate students. Prerequisites: plant physiology and forest pathology. Credits to be arranged. PROFESSOR WOLF

351-352. **Advanced Physiology of Forest Trees.**—Advanced study and research on problems in physiology of forest trees to meet individual needs of graduate students. Prerequisites: plant physiology and plant ecology or silvics. Credits to be arranged. ASSOCIATE PROFESSOR KRAMER

354. **Forest Soil Fertility.**—Experimental approach to the problems of fertility in forest soil. Influence of stand composition on nitrogen transformation. Methods of studying the exchange complex and the significance of base exchange in forest soil fertility. Prerequisites: Forestry 251 and 261, and plant physiology, or equivalents; bacteriology and analytical and organic chemistry are desirable. 3 s.h. ASSOCIATE PROFESSOR COILE
[Not offered in 1944-45]

356. **Economic Forces in Forestry.**—Analysis of classical and contemporary theories of forest valuation. Principles underlying the measurement of forces determining forestry values. Prerequisites: Forestry 279 and 282, or equivalents; courses in economic theory are desirable. 2 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR THOMSON

357-358. **Research in Forestry.**—Credits to be arranged. Students who have had adequate training may do research under direction of members of the Faculty in the following branches of forestry:

a. **Silvics.**—Prerequisites: Forestry 253, 261, and 264, or equivalents. PROFESSOR KORSTIAN

b. **Forest Soils.**—Prerequisite: Forestry 261 or equivalent.
[Not offered in 1944-45] ASSOCIATE PROFESSOR COILE

d. **Forest Management.**—Prerequisite: Forestry 281 or equivalent. ASSOCIATE PROFESSOR MAUGHAN

e. **Forest Economics.**—Prerequisite: Forestry 279 or equivalent. PROFESSOR WACKERMAN

f. **Wood Anatomy and Properties.**—Prerequisites: Forestry 259 and 260, or equivalents. ASSOCIATE PROFESSOR HARRAR
[Not offered in 1944-45]

g. **Forest Mensuration.**—Prerequisites: Forestry S151, 251, and 252, or equivalents. PROFESSOR SCHUMACHER

h. **Forest Entomology.**—Prerequisite: Forestry 231 or equivalent. PROFESSOR BEAL

GERMANIC LANGUAGES AND LITERATURE

PROFESSOR VOLLMER, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—205 PAGE AUDITORIUM; PROFESSOR KRUMMEL

Any of the following courses for which there is sufficient demand will be offered.

201-202. **Goethe.**—A careful study of Goethe's life and works, with special emphasis upon the broader aspects of his ever-widening interests and literary activities. 6 s.h. PROFESSOR KRUMMEL

203-204. **Leibnitz to Romanticism.**—Eighteenth-century German literature in its relation to contemporary European philosophy. 6 s.h. PROFESSOR VOLLMER

205-206. **Middle High German.**—The language and literature of Germany's first classical period. 6 s.h. PROFESSOR VOLLMER

207-208. **German Romanticism.**—The course covers the entire field of German Romanticism from 1800 to 1850. 6 s.h. PROFESSOR VOLLMER

209-210. **Kleist, Grillparzer, and Hebbel.**—A study of the leading representatives of German drama in the first half of the nineteenth century. 6 s.h. PROFESSOR KRUMMEL

211-212. **Heinrich Heine.**—A study of the German poet and his immediate successors in the movement known as *Jungdeutschland*. 6 s.h. PROFESSOR VOLLMER

213-214. **Literature of the Empire, 1871-1914.**—A study of the literature of this period as determined particularly by the philosophical, social, political, and religious factors. 6 s.h. PROFESSOR VOLLMER

FOR GRADUATES

301-302. **Gothic—Middle High German.**—In the first term the essentials of Gothic morphology, phonology, and grammar are investigated, and original Gothic literature is read. In the second term the leading medieval German epics are read in the original. 6 s.h. PROFESSOR VOLLMER

303-304. **German Seminar.**—A seminar will be conducted in an eighteenth- or nineteenth-century field for properly qualified students. Credit to be arranged. PROFESSORS VOLLMER AND KRUMMEL

RELATED COURSES IN OTHER DEPARTMENTS

The following courses in other departments are recommended to students, who are majoring in Germanics, as particularly valuable in building a proper background for Germanic studies:

Certain graduate courses in literature or philology offered by the ancient and modern language departments, to be selected after consultation with the German Department.

History 217-218. Europe since 1870.—6 s.h. PROFESSOR CARROLL
[Not offered in 1944-45]

History 221-222. The Age of the Renaissance.—6 s.h.
ASSOCIATE PROFESSOR NELSON

History 223-224. Medieval Institutions and Culture.—6 s.h.
ASSISTANT PROFESSOR QUYNN

History 225-226. The Age of the Reformation.—6 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR NELSON

Philosophy 201-202. The Philosophy of Art.—6 s.h. (E)
PROFESSOR GILBERT

Philosophy 213-214. History of Aesthetics.—6 s.h. (E)
[Not offered in 1944-45] PROFESSOR GILBERT

Philosophy 223. Contemporary Philosophy.—*Second semester.* 3 s.h.
PROFESSOR WIDGERY

Philosophy 244. Nietzsche and the Nineteenth Century.—3 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR MORGAN

Sociology 320. History of Social Philosophy.—3 s.h. PROFESSOR JENSEN

HISTORY

PROFESSOR LAPRADE, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—2B WEST DUKE BUILDING; PROFESSORS CARROLL, CLYDE, LANNING, AND SYDNOR; ASSOCIATE PROFESSORS MANCHESTER AND NELSON; ASSISTANT PROFESSORS QUYNN, STILL, AND WOODY

AMERICAN HISTORY

FOR SENIORS AND GRADUATES

203-204. **The United States, 1850-1900.**—The rise of sectionalism, secession, wartime problems of the Union and Confederacy, political and economic adjustments of Reconstruction, the status of the Negro, the New South, problems of capital and labor, the agrarian revolt, political parties and reform, the Spanish-American War. 6 s.h. (E) ASSISTANT PROFESSOR WOODY

209-210. **Constitutional History of the United States, 1763-1860.**—A study of the Colonial foundations of American constitutional attitudes, the constitutional aspects of the American Revolution, the framing and ratification of the Constitution, the statehood process and the extension of democracy, the constitutional implications of sectional conflict, and the Supreme Court in its relation to the problems of an industrial America. Prerequisites: courses 91 and 92. **6 s.h.** Assistant Professor Still

[Not offered in 1944-45]

215-216. **Foreign Policy and Diplomacy of the United States.**—The work in the first semester, covering the period 1775-1877, deals with such topics as the origins and evolution of basic foreign policies; isolation from Europe; paramount interests in Latin America, including the Monroe Doctrine; international co-operation in the Far East. The work in the second semester, covering the period since 1877, deals with such topics as the rise of the new Manifest Destiny; beginnings of American imperialism in Latin America and the Far East; the failure of traditional neutrality in the first World War; postwar conflicts between isolation and collective security; involvement in the second World War. **6 s.h.** Professor Clyde

230. **The Portuguese Empire and the Rise of Brazil.**—The course will deal with Portuguese explorations, the establishment of the Portuguese Empire in the East, the transplanting of Portuguese culture overseas, and the rise of a native Brazilian civilization. **3 s.h.** Associate Professor Manchester

[Not offered in 1944-45]

231. **The Hispanic Colonies of the New World.**—The development of the Iberian states as colonizing powers, the work of the conquerors, the Spanish colonial policy and system, their influences and results, native races, the international contest for supremacy, and the decay of Spanish power in America and the Philippines. **3 s.h.** Professor Lanning

232. **The Hispanic American Republics of the New World.**—**3 s.h.** Professor Lanning

233. **The Cultural and Institutional History of Colonial Hispanic America.**—**3 s.h.** Professor Lanning

[Not offered in 1944-45]

234. **Political and Social Problems in the Hispanic American Republics.**—**3 s.h.** Professor Lanning

[Not offered in 1944-45]

263-264. **American Colonial History and the Revolution, 1606-1783.**—The growth of institutions and economic life in the English colonies; the American Revolution. **6 s.h.** Assistant Professor Woody

[Not offered in 1944-45]

265-266. **The Westward Movement in the United States.**—A study of the progress of settlement from the Atlantic to the Pacific Coast with especial attention to the transmission of culture, developments in transportation, the transition from agrarian to urban communities, the process of state making, and the social, economic, and political effects of the westward march upon the United States as a whole. **6 s.h.** Assistant Professor Still

[Not offered in 1944-45]

FOR GRADUATES

304. **The Union, Confederacy, and Reconstruction.**—The growth of Southern nationalism, secession, the problems of the Union and Confederacy, and political and economic adjustments during Reconstruction. Year course. **4 s.h.**

[Not offered in 1944-45] Assistant Professor Woody

315. **Seminar in Southern History.**—Year course. 2 s.h.
PROFESSOR SYDNOR

321. **Seminar in the History of Spain and the Spanish-American Colonies.**—Year course. 2 s.h. PROFESSOR LANNING

336. **The South in Federal Politics, 1789-1860.**—The interests and political actions of the South on such questions as public lands, internal improvements, foreign policy, the tariff, and slavery; the political techniques and theories of the South. Year course. 4 s.h. PROFESSOR SYDNOR
[Not offered in 1944-45]

337. **Social and Economic Life of the Old South.**—Conditions and trends in the South in respect to population movements, transportation, agriculture, slavery, urban life, commerce, manufacturing, religion, education, and other intellectual activities. Year course. 4 s.h. PROFESSOR SYDNOR

EUROPE AND THE FAR EAST

FOR SENIORS AND GRADUATES

217-218. **Europe since 1870.**—International relations since the Franco-German War is the chief subject of study in this course; special emphasis is placed upon the underlying economic and political influences. 6 s.h.
[Not offered in 1944-45] PROFESSOR CARROLL

219-220. **The History of the European Proletariat.**—This course is concerned chiefly with the origins, expansion, and organization of the industrial working classes of Europe. The following problems are emphasized: the decline of serfdom, the growth of an urban working class and social revolutions in England, France, and Germany prior to the eighteenth century, the results of the Industrial Revolution, and labor movements and theories during the nineteenth and twentieth centuries. 6 s.h. PROFESSOR CARROLL
[Not offered in 1944-45]

221-222. **The Age of the Renaissance.**—The decline of characteristic features of medieval civilization and the rise of modern European institutions with particular attention to intellectual movements from Dante to Erasmus. 6 s.h. ASSOCIATE PROFESSOR NELSON

223-224. **Medieval Institutions and Culture.**—A consideration of the classical heritage, the Germanic infusion, development of ecclesiastical, feudal, monarchical, and communal institutions, relations of Church and State, the rise of universities, vernacular literature, philosophy, and art, in the period 300-1300 A.D. 6 s.h. ASSISTANT PROFESSOR QUYNN

225-226. **The Age of the Reformation.**—A survey of European civilization from 1500 through the Peace of Westphalia. 6 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR NELSON

241-242. **The Foreign Relations and Diplomacy of the United States in the Pacific and the Far East.**—A study of the origins and growth of American relations with China, Japan, the Philippines, and other Pacific areas in their commercial, political, and cultural aspects. 6 s.h. PROFESSOR CLYDE
[Not offered in 1944-45]

FOR GRADUATES

305. **Seminar in the History of England and the British Emprie.**—The work consists of practical training in the methods of historical research based on sources for modern British history. Year course. 2 s.h.
PROFESSOR LAPRADE

317. **Seminar in Recent European History.**—Year course. 2 s.h.
[Not offered in 1944-45] PROFESSOR CARROLL

325. **British Nationality and Public Opinion.**—A study of the various political and social groups that have contended for power in England since the sixteenth century and the methods they used. Year course. **4 s.h.**
Professor Laprade

327. **Modern Phases of the English Constitution.**—A brief review of the medieval constitution, followed by a more intensive study of certain aspects of its development in the sixteenth, seventeenth, and eighteenth centuries. Year course. **4 s.h.** Professor Laprade
[Not offered in 1944-45]

343. **Seminar in the History of American Foreign Relations and the Far East.**—Year course. **2 s.h.** Professor Clyde

HISTORIOGRAPHY AND THE TEACHING OF HISTORY

FOR SENIORS AND GRADUATES

211. **The Teaching of History and the Social Studies.**—The work consists of a discussion of the question of aims and values in teaching history and civics, textbooks, programs of study, methods of instruction, the use of maps and pictures, the making of lesson plans for use in the high school, and other problems of high-school teaching. **3 s.h.** Associate Professor Manchester
[Not offered in 1944-45]

FOR GRADUATES

320. **Historiography.**—A critical study of the process of finding, appraising, and interpreting the sources of history and of the presentation of the results in narrative. Works of important historians from Herodotus to the present are analyzed. The student undertakes specific exercises in research, criticism, and narration. There is consideration of such general topics as schools, theories, philosophies, and the function of history. Year course. **4 s.h.**
Associate Professor Nelson

This course is required of all candidates for the degree of Doctor of Philosophy who are in residence as many as two years at Duke University unless excused therefrom by the Department.

329. **Historiography of the South.**—Attention is given to the more important printed and manuscript sources and to the writings of the older historians. Bibliographical and research problems are introduced. Year course. **4 s.h.** Assistant Professor Woody
[Not offered in 1944-45]

RELATED COURSES IN OTHER DEPARTMENTS

Economics 231. Economic History of Modern Europe.—3 s.h.
Professor Hamilton

Economics 232. Economic History of the United States.—3 s.h.
Professor Hamilton

Economics 311-312. History of Political Economy.—6 s.h.
Professor Hamilton

Economics 315. Economic Systems.—3 s.h. Professor Hoover

Economics 316. Economic Functions of the State.—3 s.h.
Professor Hoover

Political Science 223. Political Thought to the Seventeenth Century.—3 s.h. Professor Wilson

Political Science 224. Modern Political Theory.—3 s.h.
Professor Wilson

Religion 309. History of the Ancient Near East.—3 s.h.
ASSOCIATE PROFESSOR STINESPRING

Religion 393. Religious Thought in Colonial America.—3 s.h.
PROFESSOR SMITH

Religion 394. Religious Thought in Modern America.—3 s.h.
PROFESSOR SMITH

Sociology 237. Indians of North America.—3 s.h.
ASSOCIATE PROFESSOR GILLIN

Sociology 238. Anthropological Backgrounds of Latin America.—3 s.h.
ASSOCIATE PROFESSOR GILLIN

Sociology 239. Acculturation and Cultural Synthesis.—3 s.h.
ASSOCIATE PROFESSOR GILLIN

Sociology 240. The Peoples of Africa.—3 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR GILLIN

Sociology 320. History of Social Philosophy.—3 s.h. PROFESSOR JENSEN

MATHEMATICS

PROFESSOR GERGEN, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—03 GRAY BUILDING; PROFESSORS ELLIOTT, RANKIN, AND THOMAS; ASSOCIATE PROFESSORS CARLITZ AND ROBERTS; ASSISTANT PROFESSOR DRESSEL

The Department normally offers basic courses in each of the main divisions of mathematics: algebra, analysis, geometry, and applied mathematics. For the year 1944-45 the Department will offer courses from the following list for which there is sufficient demand.

The Master's degree with major in mathematics is awarded primarily on the basis of scholarship. The candidate's preliminary mathematical work must be approved by the Department through the Director of Graduate Studies. It must include differential and integral calculus and an additional six semester hours of work in mathematical courses of at least Junior level. Eighteen of the twenty-four semester hours of course work required by the general regulations for the degree must be taken in the Department.

The Doctor's degree with major in mathematics is awarded as a recognition of potential ability and training in research. The original dissertation is the most important of the formal requirements for it. A candidate should have this requirement in mind from the outset and plan his courses accordingly.

Because of the important mathematical literature in French and German, a student taking graduate work in mathematics should have a practical reading knowledge of these languages near the beginning of his graduate study.

FOR SENIORS AND GRADUATES

201. **History of Mathematics.**—Evolution of the number system, arithmetic, geometry, algebra, trigonometry, analytic geometry, calculus, and modern geometry. Brief sketches of mathematicians. Prerequisite: differential calculus. **3 s.h.** PROFESSOR RANKIN

204. **Teaching of Mathematics.**—Fundamental processes, methods of study, mathematical literature, content of courses, applications, use of instruments, correlation of different branches, historical development of secondary school mathematics. Must be preceded or accompanied by integral calculus. **3 s.h.**
PROFESSOR RANKIN

225. **Theory of Equations.**—Permutations, determinants, matrices, linear systems, polynomials and their roots, constructibility, resultants, discriminants, simultaneous equations. Prerequisite: integral calculus. **3 s.h.**
PROFESSOR THOMAS

227-228. **Theory of Numbers.**—Congruences, arithmetic functions, compound moduli, quadratic reciprocity, Gauss sums, quadratic forms, sums of squares. Prerequisite: integral calculus. **6 s.h.**
ASSOCIATE PROFESSOR CARLITZ

229-230. **Algebraic Numbers.**—Ideals, unique factorization, divisors of the discriminant, determination of the class number. Prerequisite: Mathematics 225. **6 s.h.**
ASSOCIATE PROFESSOR CARLITZ

235-236. **Modern Algebra.**—Groups, fields, rings, matrices, quadratic and bilinear forms, general Galois theory, hypercomplex systems. Prerequisite: integral calculus. **6 s.h.**
ASSOCIATE PROFESSOR CARLITZ

250. **Modern Geometry.**—Properties of the triangle, transversals, harmonic properties of figures, poles, polars, inversion. **3 s.h.**
PROFESSOR THOMAS

255-256. **Projective Geometry.**—Postulational, synthetic treatment centering around Desargues' theorem and the principle of projectivity. Conics, coördinates, order, continuity, metric properties. Prerequisite: integral calculus. **6 s.h.**
PROFESSOR THOMAS

271-272. **Introductory Topology.**—Topological properties of Euclidean spaces; set-theoretic and combinatorial methods. Prerequisite: integral calculus. **6 s.h.**
ASSOCIATE PROFESSOR ROBERTS
[Not offered in 1944-45]

275. **Probability.**—Combinatory analysis, mean values, Bernoulli's theorem, probability integral, applications to statistics. Prerequisite: integral calculus. **3 s.h.**
ASSISTANT PROFESSOR DRESSEL

281. **Elementary Potential Theory.**—Newtonian potentials, vector fields, Dirichlet and Neumann problems. Prerequisite: integral calculus. **3 s.h.**
PROFESSOR GERGEN

282. **Differential Equations of Mathematical Physics.**—Hamilton-Jacobi equation, heat equation, wave equation, telegraphic equation, Schrödinger's equation. Prerequisite: integral calculus. **3 s.h.**
ASSISTANT PROFESSOR DRESSEL

283. **Fourier Series and Spherical Harmonics.**—Fourier series and integrals, Legendre polynomials, spherical harmonics, Bessel functions, applications to mathematical physics. Prerequisite: integral calculus. **3 s.h.**
ASSISTANT PROFESSOR DRESSEL

284. **Vector Analysis.**—Vectors in three-dimensional Euclidean space with applications to physics; introduction to tensor analysis. Prerequisite: integral calculus. **3 s.h.**
PROFESSOR THOMAS

287. **Mathematical Logic.**—Boole-Schroeder algebra of logic, system of Principia Mathematica, strict and material implication. **3 s.h.**
ASSOCIATE PROFESSOR CARLITZ

288. **Foundations of Mathematics.**—Postulates for groups, fields, rings, Boolean algebras. **3 s.h.**
ASSOCIATE PROFESSOR CARLITZ

291-292. **Theory of Functions.**—Fundamental concepts in the theory of functions of real and complex variables. Limits, implicit functions, power series, double series, Stieltjes integrals, Cauchy's theorem and its applications, residues, Riemann surfaces, conformal mapping. Prerequisite: second course in calculus. **6 s.h.**
PROFESSOR GERGEN

FOR GRADUATES

301-302. Algebraic Geometry.—Homogeneous coördinates, singular points and lines, Newton's parallelogram, Plücker's equations, intersections of curves. Prerequisite: Mathematics 255-256. **6 s.h.** PROFESSOR THOMAS

325-326. Real Variable.—The number system, theory of sets, transfinite numbers, Blaire classes, Lebesgue, Stieltjes and Denjoy integrals, linear operations. Prerequisite: Mathematics 291-292. **6 s.h.** PROFESSOR GERGEN

331-332. Complex Variable.—Analytic continuation, conformal mapping, univalent functions, meromorphic functions, analytic functions of several complex variables. Prerequisite: Mathematics 291-292. **6 s.h.**

333-334. Analytic Theory of Numbers.—Distribution of primes, primes in an arithmetic progression, Waring and Goldbach problems. Prerequisite: Mathematics 291-292. **6 s.h.** ASSOCIATE PROFESSOR CARLITZ

337-338. Existence Theorems.—Systems of partial differential equations, Pfaffian systems, theorems of Cauchy, Riquier, and Cartan, singular integral varieties. Prerequisite: Mathematics 291-292. **6 s.h.** PROFESSOR THOMAS

341-342. Integral Equations.—Volterra and Fredholm integral equations, application to boundary problems of differential equations. Prerequisites: elementary differential equations and second course in calculus. **6 s.h.** PROFESSOR ELLIOTT

343-344. Ordinary Differential Equations.—Solution by separation of variables, exact differentials, integrating factors, solution in series. Cauchy's existence theorem, linear, differential systems, singular points, partial differential equations equivalent to ordinary system. Prerequisite: Mathematics 291-292. **6 s.h.** PROFESSOR THOMAS

353-354. Trigonometric Series.—Topics in the theory of trigonometric, particularly Fourier, series, related results in Lebesgue integration and complex variable. Prerequisite: Mathematics 325-326. **6 s.h.** PROFESSOR GERGEN

371-372. Dimension Theory.—Abstract spaces, separation theory for Euclidean spaces, dimension theory. Prerequisite: Mathematics 271-272. **6 s.h.** [Not offered in 1944-45] ASSOCIATE PROFESSOR ROBERTS

373-374. Continuous Transformations.—Recent results concerning a number of special types of continuous transformations. Prerequisite: Mathematics 271-272. **6 s.h.** ASSOCIATE PROFESSOR ROBERTS
[Not offered in 1944-45]

382. Potential Theory.—Properties of harmonic functions, boundary value problems, potentials of general mass distribution. Prerequisites: Mathematics 281 and 325-326. **3 s.h.** PROFESSOR GERGEN

PHILOSOPHY

PROFESSOR WIDGERY, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—303 DIVINITY SCHOOL; PROFESSORS GILBERT AND SMITH; ASSOCIATE PROFESSORS LEONARD AND MORGAN; ASSISTANT PROFESSOR MCLARTY

Courses normally given in alternate years marked with a dagger are offered in 1944-45. Those marked with an asterisk are not offered in 1944-45.

FOR SENIORS AND GRADUATES

†**201-202. The Philosophy of Art.**—Study of the various phases of the esthetic experience and forms of beauty with analysis of examples. Particular attention will be given to recent writers on esthetics. **6 s.h.** (E) PROFESSOR GILBERT

203. **The Philosophy of Conduct.**—A critical study of the fundamental problems of ethics. **3 s.h.** ASSOCIATE PROFESSOR MORGAN

†205. **The Philosophy of History.**—An inquiry into the logic and methodology of the knowledge of history, and into the metaphysical implications of history. **3 s.h.** PROFESSOR WIDGERY

†208. **Political Philosophy.**—A critical investigation of the bases of political authority and of the ideals of political organization, with reference to prevalent political systems. **3 s.h.** ASSOCIATE PROFESSOR MORGAN

*209-210. **The Philosophy of Religion.**—A critical consideration of the data of empirical religion and the constructive development of modern philosophy of religion. **6 s.h.** PROFESSOR WIDGERY

211. **Philosophy of Civilization.**—The meaning and standards of civilization; its growth, decay, and survival. **3 s.h.** ASSOCIATE PROFESSOR MORGAN

*213-214. **History of Aesthetics.**—The tracing of the historical solutions of traditional problems, such as the nature of imitation, symbolism, the ugly, the sublime, and the comic, the relation of art to nature, to morals, and to economics, the relation of the particular arts to each other, the standard of taste. **6 s.h.** (E) PROFESSOR GILBERT

215. **Christian Ethics I.**—A historical and systematic study of Christian conceptions of the moral life. Religion 291. **3 s.h.** PROFESSOR SMITH

216. **Christian Ethics II.**—A critical consideration of selected modern problems from the viewpoint of the Christian ethic. Religion 292. **3 s.h.** PROFESSOR SMITH

217. **The Philosophy of Aristotle.**—Prerequisite: 105. **3 s.h.** ASSISTANT PROFESSOR MCLARTY

†223. **Contemporary Philosophy.**—A study of the leading philosophical movements in Europe and America in the last fifty years. *Second semester.* **3 s.h.** PROFESSOR WIDGERY

*226. **The History of Ethics.**—Theories of morality from Socrates to the present time. **3 s.h.** ASSOCIATE PROFESSOR MORGAN

231-232. **Philosophy of Science.**—A historical and critical survey of the relations of natural science to general philosophy. **6 s.h.** ASSOCIATE PROFESSOR LEONARD

*236. **Oriental Philosophy I. Chinese Philosophy.**—**3 s.h.**

*238. **Oriental Philosophy II. Indian Philosophy.**—**3 s.h.** PROFESSOR WIDGERY

*241. **Logic.**—The characteristic structure of a logical system. Forms of propositions and arguments. Logical relations of propositions. Levels of analysis. **3 s.h.** ASSOCIATE PROFESSOER LEONARD

*242. **Scientific Methodology.**—A survey of the methods used in the different branches of the natural and social sciences in seeking and testing knowledge. **3 s.h.** ASSOCIATE PROFESSOR LEONARD

*244. **Nietzsche and the Nineteenth Century.**—Studies in the major trends of intellectual life of the period, focused around the work of Nietzsche. **3 s.h.** ASSOCIATE PROFESSOR MORGAN

*248. **Philosophy of Values.**—**2 s.h.**

FOR GRADUATES

301-302. Seminar in Philosophy.—Special problems, chiefly metaphysical. Two hours a week throughout the year. Time to be arranged. **4 s.h.**
PROFESSOR WIDGERY

***305. Seminar: Spinoza.**—Detailed study of Spinoza's works showing the development of his own thought and his relation to his contemporaries. **3 s.h.**
PROFESSOR GILBERT

***307. Seminar: Kant.**—*Second semester.* **2 s.h.**
ASSOCIATE PROFESSOR MORGAN

***308. Seminar: Hegel.**—A study of a selection of the text together with recent interpretations. **3 s.h.** PROFESSOR GILBERT

***310. Seminar: Logical Positivism and Its Relation to Contemporary Movements in Philosophy and Science.**—**2 s.h.** ASSOCIATE PROFESSOR LEONARD

***315. Seminar in Leibnitz.**—**2 s.h.**

319. Religious Thought in Colonial America.—Religion 393. **3 s.h.**
PROFESSOR SMITH

320. Religious Thought in Modern America.—Religion 394. **3 s.h.**
PROFESSOR SMITH

323. Seminar in American Religious Thought.—Religion 397. **2 s.h.**
PROFESSOR SMITH

***325. Seminar: Locke, Berkeley, Hume.**—**2 s.h.**
ASSOCIATE PROFESSOR LEONARD

326. Seminar: Christian Ethics.—Selected problems. Religion 398. **2 s.h.**
PROFESSOR SMITH

331-332. Seminar in Special Fields of Philosophy.—**2 s.h.** each semester.

(a) **Logic and Philosophy of Science.** ASSOCIATE PROFESSOR LEONARD

(b) **Ethics and Political Philosophy.** ASSOCIATE PROFESSOR MORGAN

(c) **Aesthetics.** PROFESSOR GILBERT

(d) **Philosophy of Religion and of History.** PROFESSOR WIDGERY

RELATED COURSES IN OTHER DEPARTMENTS

Education 200. Introduction to the Philosophy of Education.—**3 s.h.**
[Not offered in 1944-45] PROFESSOR HOLTON

Greek 209-210. Plato.—**6 s.h.** ASSISTANT PROFESSOR WAY

History 221-222. The Age of the Renaissance.—**6 s.h.**
ASSOCIATE PROFESSOR NELSON

Mathematics 387. Mathematical Logic.—**3 s.h.**
ASSOCIATE PROFESSOR CARLITZ

Mathematics 288. Foundations of Mathematics.—**3 s.h.**
ASSOCIATE PROFESSOR CARLITZ

Physics 213-214. Contemporary Physics.—**6 s.h.**
ASSOCIATE PROFESSOR CONSTANT

Political Science 223. Political Thought to the Seventeenth Century.—**3 s.h.** PROFESSOR WILSON

Political Science 224. Modern Political Theory.—**3 s.h.** PROFESSOR WILSON

Psychology 228. Psychology of Belief.—3 s.h. PROFESSOR LUNDHOLM
[Not offered in 1944-45]

Religion 221. Platonism and Christianity.—3 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR OUTLER

Religion 222. Theology and Philosophy in the Nineteenth Century.—3 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR OUTLER

Sociology 320. History of Social Philosophy.—3 s.h. PROFESSOR JENSEN

Zoology 341. Historical and Philosophical Zoology.—2 s.h.
PROFESSOR HARGITT

PHYSICS

PROFESSOR NIELSEN, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—111 PHYSICS BUILDING; PROFESSORS EDWARDS, HATLEY, NORDHEIM, AND SPONER; ASSOCIATE PROFESSOR CONSTANT; ASSISTANT PROFESSOR BONNER; DR. HEBB

The Department of Physics makes provision for both beginning and advanced graduate students. The courses are designed to give a broad basic foundation in classical and quantum physics.

The preliminary work for the Master's degree must be approved by the Department. It must include at least twelve semester hours of physics of Junior grade or higher, and mathematics through differential and integral calculus.

All graduate students will first be expected to acquire a thorough knowledge of the various branches of classical physics as well as some familiarity with modern physics and sufficient laboratory training. They will be required to take such course work in the 200 group of studies as may be necessary to complete this foundation.

To complete their course requirements in physics, graduate students will take such advanced courses as will best help them and fit them for the type of work in which they plan to specialize and undertake research. The character of the work in other related departments will also depend upon the field of subsequent specialization and research.

Since a reading knowledge of French and German is highly desirable, students are urged to satisfy the language requirements in both as early as possible.

The research work of the Department is largely confined to the experimental and theoretical fields of nuclear physics and molecular structure. Experimental work is also being done in magnetism.

FOR SENIORS AND GRADUATES

213-214. Contemporary Physics.—A course which covers in a descriptive manner the fundamental concepts and experimental basis of modern theories of the structure of matter. **6 s.h.** ASSOCIATE PROFESSOR CONSTANT

215-216. Atomic Physics Laboratory.—Some of the more important experiments which form the basis of modern atomic theory. Special emphasis is placed on experimental technique, valuable in original physical investigations. **2-4 s.h.** PROFESSORS NIELSEN AND SPONER
[Not offered in 1944-45]

217-218. Advanced General Physics Laboratory.—Exact measurements involving the fields of mechanics, electrical measurements, heat, and pyrometry. **2 s.h.** PROFESSORS NIELSEN AND SPONER
[Not offered in 1944-45]

219. **Electron Tubes and Their Application.**—Theory and application of electron tube circuits with special emphasis on their use in scientific research. Three hours of lecture and one three-hour laboratory per week. **4 s.h.**
PROFESSOR NIELSEN

221-222. **Introduction to Theoretical Physics.**—Lectures and problems on the fundamental principles and mathematical theory of the general field of physics, constituting a thorough foundation for subsequent specialization and more intensive study. **8 s.h.** ASSOCIATE PROFESSOR CONSTANT

FOR GRADUATES

303. **Thermodynamics.**—Fundamental laws of thermodynamics and their applications to physics and chemistry. Offered jointly by the Departments of Physics and Chemistry. **3 s.h.** PROFESSORS GROSS AND SPONER

305. **Kinetic Theory of Matter.**—Gas laws, Maxwell's distribution law; mean free path; vicosity; heat conductivity; diffusion; phenomena in gases at low pressure; specific heat; entropy; probability and reaction kinetics. **3 s.h.**
PROFESSOR SPONER

307. **Advanced Dynamics.**—A course dealing with the more advanced phases of dynamics and considering such topics as equations of Lagrange and Hamilton, generalized coördinates, oscillatory and cyclic motion, criteria of equilibrium, and the Newtonian potential theory. **3 s.h.**
[Not offered in 1944-45] PROFESSOR NORDHEIM

308. **Theory of Electricity and Magnetism.**—Electrostatics and potential theory. Dielectric and magnetic media. The magnetic field of currents and the law of induction. AC currents and networks. **3 s.h.** PROFESSOR NORDHEIM
[Not offered in 1944-45]

311. **Conduction of Electricity through Gases.**—Electron theory of conduction through gases; spark and glow discharges; electric arcs; excitation of spectra; energy levels; radioactive radiations. **3 s.h.** PROFESSOR EDWARDS
[Not offered in 1944-45]

315-316. **Principles of Quantum Theory.**—Origin and fundamental concepts of quantum theory; wave and matrix mechanics; theory of measurements; exclusion principle and electronic spin. **6 s.h.** PROFESSOR NORDHEIM
[Not offered in 1944-45]

319. **Electrodynamics.**—Maxwell's system of electrodynamics. Production and propagation of electromagnetic waves. Wave optics. Theory of interference and diffraction. Crystal optics. **3 s.h.** PROFESSOR NORDHEIM
[Not offered in 1944-45]

320. **Theory of Electrons.**—Lorentz' equations of electrodynamics. Classical theories of dispersion, magnetism, and conductivity. Theory of relativity. **3 s.h.** PROFESSOR NORDHEIM
[Not offered in 1944-45]

323. **Theory of Atomic Spectra.**—Excitation of spectra, computation of wave lengths from photographs of spectra, study of the structure of atomic spectra with applications. **3 s.h.** PROFESSOR SPONER
[Not offered in 1944-45]

324. **Theory of Molecular Spectra.**—A study of the structure of molecular spectra with applications. **3 s.h.** PROFESSOR SPONER
[Not offered in 1944-45]

340. **Structure of Matter.**—Selected topics dealing with the constitution of matter such as crystal structure and X-rays, the solid state and problems of molecular structure. **3 s.h.** PROFESSOR SPONER
[Not offered in 1944-45]

341. Advanced Topics in Quantum Theory.—Quantum theory of radiation and collisions with special reference to nuclear physics. Prerequisite: Physics 315-316. **3 s.h.** PROFESSOR NORDHEIM
[Not offered in 1944-45]

343-344. Radioactivity and Nuclear Structure.—Discovery of radioactivity, properties of Alpha, Beta, and Gamma rays, successive transformations, artificial transmutations and nuclear structure. **6 s.h.** PROFESOR NIELSEN
[Not offered in 1944-45]

351-352. Seminar.—A series of weekly discussions on topics related to the research projects under investigation in the Department. **2 s.h.** STAFF

353-354. Thesis Seminar.—Students who are properly qualified may carry on research work under the direction of members of the Staff. **6 s.h.** STAFF

POLITICAL SCIENCE

PROFESSOR WILSON, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—311 LIBRARY; PROFESSORS RANKIN AND VON BECKERATH; ASSOCIATE PROFESSORS COLE AND SHIPMAN; ASSISTANT PROFESSORS GIBSON, HALLOWELL, LINEBARGER, AND WALTER

FOR SENIORS AND GRADUATES

207. American Constitutional Law and Theory.—A study of leading principles of American government, as developed through judicial interpretation of the Constitution. **3 s.h.** PROFESSOR WILSON

209. State and Local Government in the United States.—A study of the historical development of state and local governments, their present organization, their relation to each other and to the federal government. **3 s.h.**
PROFESSOR RANKIN

211. Political Institutions of the Far East.—A study of the governmental systems of Japan, Korea, and China from the Chou Dynasty to the present. **3 s.h.** ASSISTANT PROFESSOR LINEBARGER
[Not offered in 1944-45]

212. International Politics of the Far East.—A study of changing power relationships in the Orient since the arrival of the Europeans. **3 s.h.**
[Not offered in 1944-45] ASSISTANT PROFESSOR LINEBARGER

223. Political Thought to the Seventeenth Century.—A survey of political thought from the time of Plato to the close of the sixteenth century. **3 s.h.**
PROFESSOR WILSON

224. Modern Political Theory.—Political theories of the seventeeenth and eighteenth centuries, and of the first half of the nineteenth, with a study of their influence upon modern political institutions. **3 s.h.** PROFESSOR WILSON

225-226. Comparative Government.—A comparative study of modern political institutions with special reference to bureaucracy, federalism, fascism, dictatorship, constitutions, representation, parliamentarism, and separation of powers. **6 s.h.** ASSISTANT PROFESSOR HALLOWELL

227-228. International Law.—Elements of international law, particularly as interpreted and applied by the United States. **6 s.h.** PROFESSOR WILSON

229. Recent and Contemporary Political Theory.—A study of the more significant contributions to political theory from 1850 to the present. **3 s.h.**
ASSISTANT PROFESSOR HALLOWELL

230. **American Political Institutions.**—A study of the formation and development of institutions of the national government in the United States, with historical and analytical treatment. **3 s.h.** PROFESSOR RANKIN

241-242. **The Administrative Process.**—The function and theory of organization, delegated legislation, administrative adjudication, the control of administration, and special problems in economic balancing and proprietary activities. **6 s.h.** ASSISTANT PROFESSOR WALTER

244. **Administrative Law.**—The law of the administrative process, including the nature of regulatory authority, the status and liability of public officers, administrative tribunals and judicial review of administrative action. **3 s.h.** [Not offered in 1944-45] ASSISTANT PROFESSOR WALTER

252. **Spanish-American Constitutionalism.**—A comparative study of the nature, sources, and use of political authority in the constitutional law of Argentina, Chile, Colombia, and Uruguay. **3 s.h.** ASSISTANT PROFESSOR GIBSON [Not offered in 1944-45]

271. **Sociopolitics and Capitalism.**—Labor and labor policies in Western Europe and the United States in the nineteenth and twentieth centuries; "social security" during and after the war. **3 s.h.** PROFESSOR VON BECKERATH

291. **Municipal Government.**—A study of problems relating to the structural system and activities of municipalities in the United States. **3 s.h.** PROFESSOR RANKIN

292. **Municipal Administration.**—A study of principles and methods of municipal administration in the United States. **3 s.h.** PROFESSOR RANKIN

FOR GRADUATES

310. **Seminar in State Government.**—Open to students who have completed course 209 or its equivalent. **3 s.h.** PROFESSOR RANKIN

311. **Seminar in Far Eastern Politics.**—Open to students who have completed course 211 or its equivalent. **3 s.h.** ASSISTANT PROFESSOR LINEBARGER [Not offered in 1944-45]

325. **Seminar in Comparative Government.**—Open to students who have completed course 225-226 or its equivalent. **3 s.h.** ASSISTANT PROFESSOR HALLOWELL

328. **Seminar in International Law.**—Open to students who have completed course 227-228 or its equivalent. **3 s.h.** PROFESSOR WILSON [Not offered in 1944-45]

341. **Seminar in Public Administration.**—Open to students who have completed course 241-242 or its equivalent. **3 s.h.** ASSISTANT PROFESSOR WALTER [Not offered in 1944-45]

RELATED COURSES IN OTHER DEPARTMENTS

Economics 233. State and Local Finance.—3 s.h. PROFESSOR RATCHFORD

Economics 234. Federal Finance.—3 s.h. PROFESSOR RATCHFORD

Economics 237-238. Statistical Methods.—6 s.h. ASSISTANT PROFESSOR SPRINGER

Economics 265. International Trade and Tariff Policies.—3 s.h. PROFESSOR VON BECKERATH

Economics 266. International Finance.—3 s.h.
[Not offered in 1944-45] ASSISTANT PROFESSOR LESTER

Economics 270. Economics of War.—3 s.h.
PROFESSORS HAMILTON AND VON BECKERATH

Economics 316. Economic Functions of the State.—3 s.h.
PROFESSOR HOOVER

History 215-216. Foreign Policy and Diplomacy of the United States.—6 s.h. PROFESSOR CLYDE

History 217-218. Europe since 1870.—6 s.h. PROFESSOR CARROLL
[Not offered in 1944-45]

History 234. Political and Social Problems in the Hispanic American Republics.—3 s.h. PROFESSOR LANNING
[Not offered in 1944-45]

Philosophy 208. Political Philosophy.—3 s.h. ASSOCIATE PROFESSOR MORGAN

PSYCHOLOGY

PROFESSOR LUNDHOLM, CHAIRMAN—201 SCIENCE BUILDING; ASSOCIATE PROFESSOR ZENER, DIRECTOR OF GRADUATE STUDIES—217A SCIENCE BUILDING; PROFESSOR RHINE; ASSOCIATE PROFESSOR ADAMS AND VISITING ASSOCIATE PROFESSOR CATTELL; ASSISTANT PROFESSOR KEMP; DR. KOCH

The aim of the Department is to provide opportunity for advanced study in a variety of fields of theoretical and experimental psychology. The emphasis in the presentation of courses, however, is less upon quantity and extent than upon balance and selective representation.

In the direction of research done by graduate students, two general aims are kept in mind: that of training and that of fruitful achievement. The work for the Master's degree weights the first; that for the Ph.D. the second of these aims.

It is expected that the graduate student will have entered with preparation equivalent to the undergraduate courses offered by the Department. A reading knowledge of French and German is desirable from the beginning, and in no case should the acquisition of this be postponed later than the beginning of the second year.

No limitation is laid down as to the departments in which it is possible to minor. The fields most usually relevant to graduate study in psychology, however, are education, sociology and anthropology, endocrinology, physiology, and philosophy.

Encouragement is given to originality and freedom in thinking in the individual research of the student. There is wide tolerance of subject matter for research.

FOR SENIORS AND GRADUATES

202. Psychology of Aesthetics.—3 s.h. PROFESSOR LUNDHOLM
[Not offered in 1944-45]

204. Motivation and Learning.—Social and biological conditions of the operation, modification, organization of motivational systems. **3 s.h.**
[Not offered in 1944-45] ASSOCIATE PROFESSOR ZENER

206. Social Psychology.—Kinds of membership character; psychology of social movements; propaganda; revolution; nationalism; war. **3 s.h.**
[First semester only] ASSOCIATE PROFESSOR ADAMS AND DR. KOCH

207. **Psychology of Memory, Thinking, Perceiving.**—A study of thinking, remembering, and perceiving with reference to the basic processes involved and their determining conditions, with emphasis upon organization, meaning, and motivation. 3 s.h. ASSOCIATE PROFESSOR ZENER
[Not offered in 1944-45]

209. **Experimental Methods in Human Psychology.**—A study of methods for the control and recording of essential variables in human psychological situations, with consideration of the relation of experimental techniques to problem formulation and psychological theory. Laboratory and lectures. *Second semester.* 4 s.h. ASSOCIATE PROFESSOR ZENER

212. **Physiological Psychology.**—3 s.h. ASSISTANT PROFESSOR KEMP
[Not offered in 1944-45]

215. **Developmental Psychology.**—The environmental forces conditioning the development of personality structure and the mechanisms contributing to psychological growth; critical periods in character formation from infancy to senescence. 3 s.h. (E) ASSOCIATE PROFESSOR ADAMS
[Not offered in 1944-45]

223. **Abnormal Psychology.**— 3 s.h. *Second semester only.*
PROFESSOR LUNDHOLM
[Limited registration. Admission only after consultation with instructor.]

226. **Contemporary Schools of Psychology.**—3 s.h. (E)
ASSOCIATE PROFESSOR ZENER

228. **Psychology of Belief.**—3 s.h. PROFESSOR LUNDHOLM
[Not offered in 1944-45]

FOR GRADUATES

302. **Seminar.**—3 s.h. PROFESSOR LUNDHOLM
[Not offered in 1944-45]

303-304. **Research.**—2 or 3 s.h.
PROFESSORS LUNDHOLM AND RHINE; ASSOCIATE PROFESSORS ADAMS AND ZENER; AND VISITING ASSOCIATE PROFESSOR CATTELL

306. **Seminar in Child Psychology.**—2 or 3 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR ADAMS

307. **Seminar in Psychology of Personality.**—3 s.h. PROFESSOR RHINE
[Not offered in 1944-45]

309. **Theory of Learning.**—3 s.h. ASSOCIATE PROFESSOR ADAMS
[Not offered in 1944-45]

310. **Seminar: Selected Problems in the Dynamics of Behavior.**—3 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR ZENER

313. **Seminar in Parapsychology.**—3 s.h. (E) PROFESSOR RHINE
[Not offered in 1944-45]

RELATED COURSES IN OTHER DEPARTMENTS

Education 208A. Mental Tests and Applications.—3 s.h. (E)
ASSISTANT PROFESSOR VAN ALSTYNE

Education 208B. Practicum.—2 s.h. ASSISTANT PROFESSOR VAN ALSTYNE

Education 209. Statistical Methods Applied to Education.—2 s.h. (E)
ASSOCIATE PROFESSOR SCATES

Education 217. Advanced Educational Psychology.—3 s.h. (E)
PROFESSOR BROWNELL

Education 218. Educational Implications of Genetic Psychology.—3 s.h. (E)
PROFESSOR BROWNELL

Education 227. The Psychology of Learning: Problems.—3 s.h. (E)
[Not offered in 1944-45]
ASSISTANT PROFESSOR EASLEY

Education 228. The Psychology of Learning: Theoretical and Experimental.—3 s.h. (E)
ASSISTANT PROFESSOR EASLEY
[Not offered in 1944-45]

Education 258. Educational Measurements.—3 s.h. (E)
ASSOCIATE PROFESSOR SCATES

Education 320. Advanced Educational Statistics.—3 s.h.
ASSOCIATE PROFESSOR SCATES

Philosophy 223. Contemporary Philosophy.—3 s.h. PROFESSOR WIDGERY

Philosophy 231-232. Philosophy of Science.—6 s.h.
[Not offered in 1944-45]
ASSOCIATE PROFESSOR LEONARD

Philosophy 241. Logic.—3 s.h. ASSOCIATE PROFESSOR LEONARD
[Not offered in 1944-45]

Philosophy 242. Scientific Methodology.—3 s.h.
[Not offered in 1944-45]
ASSOCIATE PROFESSOR LEONARD

Sociology 212. Child Welfare.—3 s.h. PROFESSOR JENSEN

Sociology 217. Race and Culture.—3 s.h.
ASSOCIATE PROFESSOR THOMPSON

Zoology 229. Endocrinology.—4 s.h. ASSISTANT PROFESSOR JEFFERS

Zoology 321. General Physiology.—4 s.h.

Zoology 324. Advanced Physiology.—4 s.h.
[Not offered in 1944-45]

Zoology 341. Historical and Philosophical Zoology.—2 s.h.
PROFESSOR HARGITT

Zoology 351-352. Zoological Journal Club.—2 s.h. STAFF

Zoology 355-356(e). Seminar: Ecology, Parasitology, and Behavior.—Credit to be arranged. PROFESSOR PEARSE AND DR. WHARTON

RELIGION

PROFESSOR SMITH, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—HH-01, FEW QUADRANGLE; PROFESSORS BRANSCOMB, GARBER, AND RUSSELL; ASSOCIATE PROFESSORS CLARK, OUTLER, PETRY, AND STINESPRING; DR. JUDAH GOLDIN

Graduate study in religion leading to the degrees of Master of Arts and Doctor of Philosophy may be pursued in three fields: (1) Biblical Studies (Professor Branscomb, Adviser); (2) Studies in Church History (Professor Garber, Adviser); and (3) Studies in Christian Theology and Ethics (Professor Smith, Adviser). A student majoring in one of these fields will be expected to take such courses in one or both of the other fields as may be necessary to give an adequate understanding of his field of specialization.

Students pursuing work in the field of religion will be expected to take such other courses in cognate fields as will aid in the understanding of their field of specialization. Special attention is called to the Division of Ancient Languages and Literature for those working in Field I; to the Department of History for those working in Field II; and to the Department of Philosophy and the Department of Sociology for those working in Field III.

FIELD I. BIBLICAL STUDIES

201-202. **First Hebrew.**—The principles and structure of the Hebrew language with translation of selected Old Testament narratives. M.W.F. at 10:10. **6 s.h.** ASSOCIATE PROFESSOR STINESPRING

205-206. **Arabic.**—Introduction to the classical language and literature with some attention to the modern idiom. Hours to be arranged. **6 s.h.** ASSOCIATE PROFESSOR STINESPRING

207-208. **Second Hebrew.**—Samuel or Kings the first semester and Isaiah the second. M.W.F. at 9:10. **6 s.h.** DR. GOLDIN

301. **Old Testament Theology.**—The religious and ethical teachings of the books of the Old Testament in their historical development. Prerequisite: Old Testament 203-204. M.W.F. at 10:10. **3 s.h.** PROFESSOR RUSSELL

304. **Aramaic.**—A study of the Aramaic portions of the Old Testament, and selected passages from the Targums, Midrashes, and Talmuds. Hours to be arranged. **3 s.h.** ASSOCIATE PROFESSOR STINESPRING

305 **Third Hebrew.**—A study of late Hebrew prose, with readings from Chronicles, Ecclesiastes, and the Mishnah. Hours to be arranged. **3 s.h.**
[Not offered in 1944-45] ASSOCIATE PROFESSOR STINESPRING

309. **History of the Ancient Near East.**—A specialized study of the civilizations of Egypt, Palestine, Syria, and Mesopotamia in light of Biblical archaeology. T.Th.S. at 10:10. **3 s.h.** ASSOCIATE PROFESSOR STINESPRING

310. **Old Testament Prophecy.**—The prophetic movement in Israel with special emphasis on the prophets of the eighth century B.C. T.Th.S. at 9:10. **3 s.h.** ASSOCIATE PROFESSOR STINESPRING

218. **Galatians and I Corinthians.**—A detailed study of two of Paul's major epistles. The course will be based on the Greek text. T.Th.S. at 9:10. **3 s.h.** PROFESSOR BRANSCOMB
[Not offered in 1944-45]

220. **I Peter and the Gospel of John.**—A detailed study of two of the non-Pauline writings of the New Testament. The course will be based on the Greek text. T.Th.S. at 9:10. **3 s.h.** PROFESSOR BRANSCOMB

311. **The Life and Teachings of Jesus.**—Prerequisite: New Testament 213-214. M.W.F. at 10:10. **3 s.h.** PROFESSOR BRANSCOMB

312. **New Testament Theology.**—The religious teaching of the books of the New Testament. Prerequisite: New Testament 213-214. M.W.F. at 10:10. **3 s.h.** PROFESSOR RUSSELL

313. **The Apostolic Fathers.**—A study of the Christian development from Clement of Rome to Polycarp, with readings of the Greek text. T.Th.S. at 10:10. **3 s.h.** ASSOCIATE PROFESSOR CLARK

314. **Early Christian Apologists.**—A study of Christian apologetic in the second century, with readings of the Greek text. M.W. at 2:00. **3 s.h.** PROFESSOR BRANSCOMB

315. **Judaism at the Beginning of the Christian Era.**—A study of Judaism from the time of Ben Sirach to the composition writing of the Mishnah. M.W. at 2:00. **3 s.h.** DR. GOLDIN

316. **Hellenistic Religions at the Beginning of the Christian Era.**—T.Th.S. at 10:10. 3 s.h. ASSOCIATE PROFESSOR CLARK

318. **Text of New Testament.**—A study of the materials for the reconstruction of the text, the principles of textual criticism, and the history of the text. Practical exercises in the use of manuscripts and facsimiles will be given. T.Th.S. at 12:10. 3 s.h. ASSOCIATE PROFESSOR CLARK

320. **Rabbinic Literature.**—Critical readings in Rabbinic Literature of the early centuries of the Christian Era. M.W. at 2:00. 3 s.h. DR. GOLDIN

FIELD II. STUDIES IN CHURCH HISTORY

328. **The Church in Europe since 1800.**—Emphasis is placed on the relation of the Church to the social, economic, and political life of Modern Europe. Prerequisite: Church History 233-234. M.W.F. at 11:30. 3 s.h. PROFESSOR GARBER

331. **The Social Message of the Early and Medieval Church.**—A study of the social teachings and contributions of the Christian Church prior to the Protestant Reformation. Prerequisite: Church History 233-234. T.Th.S. at 10:10. 3 s.h. ASSOCIATE PROFESSOR PETRY

332. **The Medieval Church.**—Outstanding characteristics of the Medieval Church, emphasizing theory, polity, institutions, sacraments, and worship. Prerequisite: Church History 233-234. T.Th.S. at 10:10. 3 s.h. ASSOCIATE PROFESSOR PETRY

333. **A History of Christian Renunciation in the Middle Ages.**—A study of the renunciatory ideal and spiritual practices with special reference to Benedictines, Franciscans, Lowland Mystics, and leading seculars. Prerequisite: Church History 233-234. M.W.F. at 12:10. 3 s.h. ASSOCIATE PROFESSOR PETRY

334. **Church Reformers and Christian Unity.**—The work of such reformers as Marsilius of Padua, William of Ockham, John Gerson, Pierre d'Ailly, and Nicholas of Cusa in relation to ecclesiastical schism and the search for Christian unity through representative councils. Prerequisite: Church History 233-234. T.Th.S. at 11:10. 3 s.h. ASSOCIATE PROFESSOR PETRY

335-336. **The Church in America.**—The Church as a factor in the social, economic, and political life of America. Prerequisite: Church History 233-234. T.Th.S. at 10:10. 6 s.h. PROFESSOR GARBER

337. **Religion in the Southern States since the Civil War.**—A study of the religious life of the Southern people since 1865. Prerequisite: Church History 233-234. 3 s.h. PROFESSOR GARBER
[Not offered in 1944-45]

339. **Seminar on Frontier Religion.**—Special studies on influence of the frontier in American religious life. Prerequisite: Church History 233-234. 2 s.h. PROFESSOR GARBER

FIELD III. STUDIES IN CHRISTIAN THEOLOGY AND ETHICS

221. **Platonism and Christianity.**—An analysis of Plato's religious philosophy and a survey of its continuing influence in Hellenistic and Christian thought. Prerequisite: six semester hours in philosophy or its equivalent. 3 s.h. ASSOCIATE PROFESSOR OUTLER
[Not offered in 1944-45]

222. **Theology and Philosophy in the Nineteenth Century.**—A study of Protestant thought from Schleiermacher to Troeltsch, with special attention to the reciprocal relations between theology and metaphysics. 3 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR OUTLER

291. **Christian Ethics I.**—A historical and systematic study of Christian conceptions of the moral life. T.Th.S. at 12:10. 3 s.h. PROFESSOR SMITH

292. **Christian Ethics II.**—A critical consideration of selected contemporary social problems from the viewpoint of the Christian ethic. T.Th.S. at 12:10. 3 s.h. PROFESSOR SMITH

321. **History of Christian Thought I.**—A study of theology and philosophy in the development of the patristic and medieval Church. Special attention is given to the writings of the most influential thinkers and the official pronouncements of the Church. M.W.F. at 10:10. 3 s.h. ASSOCIATE PROFESSOR OUTLER

322. **History of Christian Thought II.**—A study of theological thought in the development of Protestant Christianity and Roman Catholicism. Special attention is given to problems of theological method and the influence of critical and speculative thought in science and philosophy. M.W.F. at 10:10. 3 s.h. ASSOCIATE PROFESSOR OUTLER

323. **The Christian Conception of the Church.**—A historical survey of the ways in which the Christian tradition has interpreted the idea of the Church, followed by a critical analysis of the theological implications of such contemporary problems as church and state, church and culture, and the ecumenical movement. Prerequisite: Christian Doctrine 321. M.W.F. at 11:30. 3 s.h. ASSOCIATE PROFESSOR OUTLER

[Not offered in 1944-45]

329. **Seminar in Historical Theology.**—Selected problems in the history of Christian thought, with special reference to the relation between theology and philosophy. M. at 7:30 P.M. 2 s.h. ASSOCIATE PROFESSOR OUTLER

366. **Seminar in Philosophy of Religious Education.**—A critical study of the basic concepts and theories underlying religious education. T. at 3:30. 2 s.h. PROFESSOR SMITH

[Not offered in 1944-45]

393. **Religious Thought in Colonial America.**—A survey of the main developments in colonial religious thought, including Christian ethics. M.W.F. at 11:10. 3 s.h. PROFESSOR SMITH

394. **Religious Thought in Modern America.**—A survey of the major currents in later Amerian religious and ethical thought, with special attention to liberal Protestantism. M.W.F. at 11:10. 3 s.h. PROFESSOR SMITH

397. **Seminar in American Religious Thought.**—Selected problems, chiefly of the nineteenth century. T. at 3:30. 2 s.h. PROFESSOR SMITH

398. **Seminar in Christian Ethics.**—A critical study of selected problems. T. at 3:30. 2 s.h. PROFESSOR SMITH

399. **Seminar in Theology and Ethics.**—Readings and critical analysis of the theological and ethical thought of the main figures of the nineteenth century, including both European and American thinkers. T. at 3:30. 2 s.h. PROFESSOR SMITH AND ASSOCIATE PROFESSOR OUTLER

[Not offered in 1944-45]

OTHER COURSES

Certain other courses listed in this bulletin and in the *Bulletin of the Divinity School* may be taken for graduate credit provided that at the time of registration they are approved by the Director of Graduate Studies in Religion and by the Dean of the Graduate School.

ROMANCE LANGUAGES

PROFESSOR WEBB, CHAIRMAN—107 GRAY BUILDING; PROFESSOR JORDAN, DIRECTOR OF GRADUATE STUDIES—106 GRAY BUILDING; PROFESSOR COWPER; ASSOCIATE PROFESSORS LUNDEBERG AND WALTON; ASSISTANT PROFESSORS DAVIS AND REID

To be eligible for graduate study in this Department, the student should normally have credit for four years of college work in the chosen language, or eighteen hours beyond the conventional two units offered at entrance to college. In addition to this minimum requirement, one semester of composition and grammar review is highly desirable.

It is recommended that candidates for the Master's degree take a second Romance Language for the minor subject.

A candidate for the Ph.D. degree should be equipped to follow graduate courses in a second Romance Language. Some training in Romance Linguistics will be required for this degree, the amount to be determined by the Department upon consideration of the student's preparation in the field.

FRENCH

FOR SENIORS AND GRADUATES

213. French Classicism.—From Malherbe to La Bruyère. **3 s.h.** ASSOCIATE PROFESSOR WALTON

214. French Classicism.—From La Bruyère to the Encyclopedists and Beaumarchais. **3 s.h.** ASSOCIATE PROFESSOR WALTON

215-216. The Modern French Novel.—A survey of the novel form from the seventeenth to the twentieth century, with particular attention to the analysis of fundamental literary tendencies; classicism, rationalism, romanticism, and realism. **6 s.h.** PROFESSOR JORDAN

217. French Phonetics.—French sounds and French spelling; pronunciation drills; exercises in phonetic transcription; and dictation; diction; aural comprehension. **3 s.h.** PROFESSOR WEBB

218. Materials and Methods.—History of the teaching of French; methods; the course of study; analysis and criticism of representative texts; tests and examinations; objectives in the light of teaching conditions, equipment and future application. **3 s.h.** PROFESSOR WEBB

219. Old French.—An introduction to the Old French language and literature. The *Chanson de Roland*—*Aucassin et Nicolette*. **3 s.h.** PROFESSOR COWPER

220. Old French.—Types of Old French literature. The romances of chivalry. **3 s.h.** PROFESSOR COWPER

227. French Poetry since Théophile Gautier.—Parnassianism and Symbolism. **3 s.h.** ASSOCIATE PROFESSOR WALTON

232. Rousseau and the Beginnings of Romanticism.—3 s.h. PROFESSOR COWPER

233. Main Currents of Modern French Literature.—A survey of the principal literary tendencies from the seventeenth to the nineteenth century. Selected illustrative readings from leading authors. **3 s.h.** PROFESSOR WEBB

FOR GRADUATES

317. History of the French Language.—3 s.h. PROFESSOR COWPER

323-324. **Realism and Naturalism.**—Literary doctrines and practices in the generation of 1850-90, with particular reference to the background of scientific thinking. 3 s.h. PROFESSOR JORDAN

325-326. **French Literature in the Sixteenth Century.**—6 s.h.
ASSOCIATE PROFESSOR WALTON

328. **Anatole France.**—3 s.h. ASSOCIATE PROFESSOR WALTON

331. **Diderot and the Encyclopédie.**—3 s.h. PROFESSOR COWPER

333-334. **Contemporary French Literature.**—A study of the main currents in the twentieth century, with consideration chiefly of authors who have contributed most to contemporary tendencies. 6 s.h. PROFESSOR JORDAN

350. **Nineteenth-Century French Criticism.**—A survey of critical doctrines and practices from Sainte-Beuve to the end of the century. 3 s.h.
PROFESSOR JORDAN

Of the courses listed above, the following will be offered during the first semester of the year 1944-45: 218, and four courses from the group 213, 215, 219, 233, 323, 325, 333. During the second semester, 217, and four courses from the group 214, 216, 220, 227, 232, 324, 326, 334, 350.

SPANISH

FOR SENIORS AND GRADUATES

253. **Spanish Phonetics.**—The sounds of the Spanish language; sound changes; exercises in transcription; regional pronunciation; intonation; limited use of electrical recording machines. 3 s.h.
ASSOCIATE PROFESSOR LUNDEBERG

255-256. **Studies in Spanish-American Literature.**—The course will center about the development of national and continental consciousness in Spanish-American literary history from colonial times to the present day, although special emphasis will be given to modern literature. Extensive individual investigations and reports with adequate training in bibliography. 6 s.h.
ASSISTANT PROFESSOR REID

258. **Landmarks of Medieval and Renaissance Literature.**—The development of the national spirit as manifest in representative works of early Spanish literature, such as the *Cantar de Mío Cid,* the *Romancero,* and the *Celestina,* with some attention to the characteristics of the older language. *First semester.* 3 s.h. ASSISTANT PROFESSOR DAVIS

260. **Advanced Syntax and Composition.**—A systematic review of Spanish syntax; free oral and written composition; selected translation assignments; epistolary forms, etc. Conducted mainly in Spanish. 3 s.h.
ASSOCIATE PROFESSOR LUNDEBERG

261-262. **The Modern Spanish Novel.**—The evolution of the novel from the *Costumbrista* writers through the generation of 1898. 6 s.h.
ASSOCIATE PROFESSOR LUNDEBERG

265. **Golden Age Literature: Cervantes.**—The *Novelas ejemplares;* analytic study of the tales, their style, literary importance and influence. 3 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR LUNDEBERG

266. **Golden Age Literature: The Don Juan Theme.**—Study of the representative Don Juan plays of the Golden Age, with reference to use of this motif by later writers. 3 s.h. ASSOCIATE PROFESSOR LUNDEBERG
[Not offered in 1944-45]

SOCIOLOGY AND ANTHROPOLOGY

PROFESSOR ELLWOOD, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—303 GRAY BUILDING; PROFESSORS GROVES, HART, AND JENSEN; ASSOCIATE PROFESSORS GILLIN AND THOMPSON

205. Social Pathology.—A study of the causes, extent, significance, and constructive treatment of the principal forms of pathology in modern society: poverty, physical defectiveness, malnutrition, mental deficiency, mental disease, undirected leisure activities, and unstandardized commercial recreation, alcoholism, prostitution, vagrancy, and delinquency. Prerequisite: course 91-92, 101, or 131-132. **3 s.h.** Professor Jensen

206. Criminology.—A study of the original tendencies of man and the problem of socializing these tendencies; the relations of physical and mental defectiveness and untoward influences in the home and neighborhood to crime; the development of criminological theory and procedure, emphasizing penal and reform methods, and especially modern methods of social treatment and prevention of crime. Prerequisite: course 91-92, 101, or 131-132. **3 s.h.** Professor Jensen

212. Child Welfare.—A study of heredity and environment as factors in personality development; infant conservation; welfare responsibilities of the school, emphasizing the physical and mental well-being of the child, play, and compulsory and industrial education; child labor, diagnosis and treatment of delinquency; care of the dependent and neglected child; child-caring agencies, public and private; and a community program of child welfare. Prerequisite: course 91-92, 101, or 131-132. **3 s.h.** Professor Jensen
[Not offered in 1944-45]

213. Constructive Social Policies.—An intensive study of the theories and legislation dealing with such problems as compensation, vocational re-education, and other methods of social insurance and social improvement. **2 s.h.**
[Not offered in 1944-45] Professor Jensen

215. Rural Sociology.—A study of the societies developed by people who settle the land and exploit it for a livelihood; patterns of settlement; culture; peasant, farmer, and folk societies; and rural institutions. Special attention is given to the plantation and the rural problems of the South. Prerequisite: course 91-92, 101, or 131-132. **3 s.h.** Associate Professor Thompson

216. Urban Sociology.—The city and civilization. This course studies the inner life and problems of the city and its function in the larger regional and world community which it nucleates. Prerequisite: course 91-92, 101, or 131-132. **3 s.h.** Associate Professor Thompson

217. Race and Culture.—An analytical study of racial and cultural relations and problems of the Indian, the Negro, and other minority groups in historical and contemporary society. Prerequisite: course 91-92, 101, or 131-132. **3 s.h.** Associate Professor Thompson

225. Statistical Methods in Sociology.—Deals with the processes of definition, classification, measurement, tabulation, association, correlation, comparison of averages and of percentages, causation, prediction, preparation and interpretation of charts and graphs, as applied to and illustrated by sociological data. Prerequisite: course 91-92, 101, or 131-132. **3 s.h.** Professor Hart

227. Emigration and Immigration.—A study of territorial movements of population with special reference to Europe and America. Causes and extent of migration; its effect upon American and European society; origin and characteristics of immigrant groups and their organization in the New World; problems, agencies, and processes of assimilation. Prerequisite: course 91-92, 101, or 131-132. **3 s.h.** Professor Jensen
[Not offered in 1944-45]

236. **Social Ethics.**—A study of sociological fundamentals underlying ethics, including the controversy between materialistic and idealistic social thinkers, the nature of personalities and of social organizatoins, the nature of social values, types of social interaction and their effects upon general social values, underlying principles and facts of social change, and the bearings of all these upon certain social problems. **3 s.h.** PROFESSOR HART

237. **Indians of North America.**—Origin and early developments of aboriginal populations; development and distribution of tribes, their customs and languages; Indian influences on Euro-American culture; present status of the Indians; considerations of the culture-environment relationship in the light of comparison between aboriginal and modern American life. Prerequisite: course 131. **3 s.h.** ASSOCIATE PROFESSOR GILLIN

238. **Anthropological Backgrounds of Latin America.**—The aboriginal races and cultures of South America; origins; development; distribution and variations at the time of the Discovery; Iberian and African racial importations of the past four hundred years; the contemporary fusion and mixtures in such areas as Brazil, the Andean highlands, etc., and their relation to certain contemporary problems. Prerequisite: course 131. **3 s.h.**
ASSOCIATE PROFESSOR GILLIN

239. **Acculturation and Cultural Synthesis.**—A study of the results of contact between preliterate and literate cultures in various parts of the world and the prospects for the future. Prerequisite: course 131. **3 s.h.**
ASSOCIATE PROFESSOR GILLIN

240. **The Peoples of Africa.**—A survey of the aboriginal peoples and cultures of Africa from the earliest times to the present day with special attention to the areas of origin of the American Negro. Prerequisite: course 131. **3 s.h.**
[Not offered in 1944-45] ASSOCIATE PROFESSOR GILLIN

252. **Education and Social Control.**—A study of education as an agency of social progress from primitive times to the present. Prerequisite: course 91-92, 101, or 131-132. **2 s.h.**
[Not offered in 1944-45]

281. **Public Opinion.**—The fundamental problems and processes of social control and social change in democratically organized groups; the nature and development of public opinion, its cultural and psychological bases, the role of leadership, pressure groups, prestige, propaganda, censorship, advertising, the press, the motion picture, the radio, the graphic arts, etc., in its management and dissemination. **3 s.h.** PROFESSOR JENSEN
[Not offered in 1944-45]

FOR GRADUATES

317. **Seminar in Anthropology.**—A seminar for advanced students who wish to pursue individual studies in racial or cultural anthropology. **1 to 3 s.h.** *each semester.* ASSOCIATE PROFESSOR GILLIN

319. **Principles of Sociology.**—A critical study of sociological theory. The sociological theories of recent writers will be critically examined with a view to laying the foundation for a constructive theory of the social life in modern biology and psychology. Discussions and papers by the class. **3 s.h.**
[Not offered in 1944-45] PROFESSOR JENSEN

320. **History of Social Philosophy.**—Lectures on the development of social thought from Aristotle to the present; the social philosophies of Plato, Aristotle, St. Augustine, Thomas Aquinas, Machiavelli, Bodin, Hobbes, Locke, Vico, Montesquieu, Rousseau, Condorcet, and the sociological systems of Comte, Spencer, Schaeffle, Lilienfeldt, Gumplowicz, Ratzenhofer, and Ward

will, among others, be considered. A large amount of assigned reading will be required in this course. The student is advised to correlate this course with related courses in economics, history, political science, and philosophy. 3 s.h. Professor Jensen

322. **Methods of Social Research.**—A study of the various methods of research and investigation that can be applied to the study of social phenomena. 3 s.h. Professor Jensen

326. **Operational Sociology.**—A seminar for advanced students, presenting an operational philosophy of social science as a basis for research in sociology and religion. Examples of operational procedure in these fields will be analyzed. Assigned projects will embody applications of the operational method. Prerequisite: one of the following: Sociology 225, or Economics 237-238, or Education 209, or Mathematics 74 or 275, or some other acceptable course in statistics. 3 s.h. Professor Hart

330. **Seminar.**—Research work upon special problems in sociology and anthropology. 1 s.h. *each semester.*
Professors Ellwood, Hart, and Jensen; Associate Professors Gillin and Thompson

340. **Seminar.**—Special problems in race relations, urban and rural life, and the sociology of the South generally. 3 s.h. *each semester.*
Associate Professor Thompson

342. **Seminar in Marriage and the Family.**—Special problems. Open to graduate students who have had at least twelve hours in sociology. 2-4 s.h.
[Not offered in 1944-45] Professor Groves

350. **Seminar in Applied Sociology.**—Special research problems in social pathology, child welfare, criminology, and related topics. 1 to 3 s.h. *each semester.* Professor Jensen

351. **Seminar in Medical Sociology.**—The basic principles of the various medical specialties as applied to the problems of marraige and the family. Open only to graduate students in sociology, with the consent of the instructor and of the Director of Graduate Studies. Given by the Staff of the Medical School under the direction of Dr. Bayard Carter, M.D. 2 s.h.
[Not offered in 1944-45]

352. **Seminar in Family Law.**—A seminar approach to the efforts of the social sciences, including law, to deal with the intricate and perplexing problems of the modern family. Readings are assigned in legal and sociological material. 2 s.h. Professor Bradway

RELATED COURSES IN OTHER DEPARTMENTS

Economics 217. Population Problems and Resources.—3 s.h.
Professor Spengler

Economics 315. Economic Systems.—3 s.h. Professor Hoover

Economics 316. Economic Functions of the State.—3 s.h.
Professor Hoover

Philosophy 205. Philosophy of History.—3 s.h. Professor Widgery

Political Science 223. Political Thought to the Seventeenth Century.—3 s.h. Professor Wilson

Political Science 224. Modern Political Theory.—3 s.h.
Professor Wilson

Psychology 206. Social Psychology.—3 s.h. Associate Professor Adams
[First semester only]

ZOOLOGY

PROFESSOR GRAY, CHAIRMAN—218 BIOLOGY BUILDING; PROFESSOR HARGITT, DIRECTOR OF GRADUATE STUDIES—326 BIOLOGY BUILDING; PROFESSORS HALL AND PEARSE; ASSISTANT PROFESSORS BOOKHOUT, JEFFERS, AND JOHNSON

For admission to candidacy for the Master's degree the applicant should have completed an undergraduate major in zoology or its equivalent (courses in general science and botany cannot be counted as a part of the zoology major). This normally amounts to about twenty-four semester hours of course work, which should be distributed among the various fields of zoology and must include comparative anatomy of vertebrates or vertebrate zoology, physiology, and embryology. The major work must have been passed with good grades. At least one year of chemistry is required, and a year of physics is recommended. Work for the degree will require eighteen hours in advanced courses in zoology, six hours in a minor department, and a thesis.

For admission to candidacy for the Ph.D. degree it is expected that the undergraduate major in zoology will amount to about thirty-two hours which have been passed with good grades. Comparative anatomy of vertebrates or vertebrate zoology, physiology, and embryology must be included in the undergraduate major. At least two years of chemistry and one year of botany are required and one year of physics is recommended; for certain fields organic chemistry is desirable. Toward the end of the first year of residence a committee will be appointed for each candidate, which will review his preparation and set specific requirements to be met. This program will include one or more graduate courses in each of several fields of zoology; broad knowledge of science in general and of biology in particular, attained by wide reading; required major and minor courses, and research; and a satisfactory dissertation which is the result of original work. The Department requires that a first draft of the dissertation shall be completed by March 15 of the year in which the degree is to be conferred. At least one year before the degree is to be conferred each candidate must pass an examination on the whole field of zoology and the minor.

FOR SENIORS AND GRADUATES

204. **Advanced Parasitology.**—Lectures, conferences, readings, and laboratory work dealing with practical and theoretical matters relating to animal parasites. Offered in alternate years. Prerequisite: Zoology 161. **4 s.h.**
PROFESSOR PEARSE

222. **Entomology.**—Anatomy, physiology, embryology, and classification of insects. Prerequisite: one year of zoology. **4 s.h.** PROFESSOR GRAY

224. **Vertebrate Zoology.**—A study of the life histories, adaptations, ecology, and classification of vertebrate animals. Prerequisite: Zoology 53. **4 s.h.** PROFESSOR GRAY

229. **Endocrinology.**—The structure, physiology, and embryology of the endocrine glands. Lectures, reading assignments, reports, and laboratory work. Prerequisites: Zoology 53, 92. **4 s.h.** ASSISTANT PROFESSOR JEFFERS

274. **Invertebrate Zoology.**—A study of structure, functions, and habits of invertebrate animals under normal and experimental conditions. Field trips will be made to study, collect, and classify animals in their natural habitats. Offered in alternate years. Prerequisites: Zoology 1 and 2. **4 s.h.**
ASSISTANT PROFESSOR BOOKHOUT

276. **Protozoology.**—The morphology, physiology, taxonomy, and culture of Protozoa. Offered in alternate years. Prerequisites: Zoology 1 and 2. **4 s.h.**
ASSISTANT PROFESSOR BOOKHOUT

FOR GRADUATES

303. Ecology.—Relation of animals to environment. Lectures, readings, reports, conferences; laboratory and field work. Offered in alternate years. **4 s.h.** PROFESSOR PEARSE

306. Advanced Ecology.—Lectures, conferences, field work, and methods. Offered in alternate years. Prerequisite: Zoology 303. **4 s.h.**
PROFESSOR PEARSE

307. Foundations of Zoology.—Lectures, readings, and discussions on the background and training essential for a professional zoologist. Offered in alternate years. **2 s.h.** PROFESSOR PEARSE

321. General Physiology.—Comparative study of functions in all animal groups, especially vertebrates. Lectures, laboratory work, and conferences. **4 s.h.**

324. Advanced Physiology.—Present-day problems in physiology, with laboratory projects involving precise instrumental analyses. Lectures, conferences, and laboratory work. Prerequisite: Zoology 151 or 321. **4 s.h.**

327. Experimental Embryology.—Lectures, assigned readings, and reports. Offered in alternate years. Prerequisites: Zoology 92, 151 or 321. **3 s.h.**

341. Historical and Philosophical Zoology.—Readings and discussions. A critical study of the developments of modern biological concepts and theories, their past and present significance. Offered in alternate years. **2 s.h.**
PROFESSOR HARGITT

343. Cytology.—The structure of the cell. Lectures, readings, reports, and laboratory work. Offered in alternate years. Prerequisites: Zoology 53, 92, 156, or equivalents. **4 s.h.** PROFESSOR HARGITT

351-352. Zoological Journal Club.—A weekly meeting of graduate students and Faculty to hear reports and to discuss biological facts, theories, and problems. One hour a week throughout the year. Required of all graduate students who major in zoology. **2 s.h.** STAFF

353-354. Research.—Students who have had proper training may carry on research under direction of members of the Staff, in the following fields:

(a) Embryology; Endocrinology.
ASSISTANT PROFESSORS JEFFERS AND JOHNSON

(b) Comparative and General Physiology.

(c) Histology; Cytology. PROFESSOR HARGITT AND ASSISTANT PROFESSOR JOHNSON

(d) Invertebrate Zoology. ASSISTANT PROFESSOR BOOKHOUT

(e) Ecology; Parasitology; Behavior. PROFESSOR PEARSE

(f) Vertebrate Zoology; Entomology. PROFESSOR GRAY
Hours and credits to be arranged.

355-356. Seminar.—Special seminar courses in particular fields are given by various professors when the number of students makes them desirable. Hours and credits to be arranged.

(a) Embryology; Endocrinology.

(b) Comparative and General Physiology.

(c) Histology; Cytology. PROFESSOR HARGITT, ASSISTANT PROFESSORS JEFFERS AND JOHNSON

(d) Invertebrate Zoology. ASSISTANT PROFESSOR BOOKHOUT

(e) Ecology; Parasitology; Behavior. PROFESSOR PEARSE AND DR. WHARTON

(f) Vertebrate Zoology; Entomology. PROFESSOR GRAY

COURSES IN THE MEDICAL SCHOOL OPEN TO GRADUATE STUDENTS

PROFESSORS EADIE, MARKEE, PERLZWEIG, AND D. T. SMITH; VISITING PROFESSOR DAWSON; ASSOCIATE PROFESSORS F. BERNHEIM, DANN, HETHERINGTON, MCCREA, MARTIN, AND TAYLOR; ASSISTANT PROFESSORS M. L. C. BERNHEIM, CONANT, EVERETT, HANDLER, HOLLINSHEAD, NEURATH, AND PEELE

The facilities of the departments listed below are available to qualified students for independent or supervised research and investigations whether working for advanced degrees or otherwise.

Graduate students desiring to pursue a major or a minor in any of the departments listed below or to be admitted to any of the courses listed below should consult or write to the Head of the Department concerned: Anatomy, Dr. Markee; Bacteriology, Dr. D. T. Smith; Biochemistry, Dr. Perlzweig; Physiology and Pharmacology, Dr. Eadie; Nutrition, Dr. Dann. Because of the accelerated program in the Medical School, graduate students are advised to write the Heads of the Departments for the exact dates of the different courses.

ANATOMY

M201. Gross Human Anatomy.—A course especially designed for graduate students, comprising a complete dissection of the cadaver. The laboratory work is supplemented by conferences which place emphasis on the biological aspects of the subject. Oct., 1944-Feb., 1945. Hours and credits (maximum 8 s.h.) by arrangement. Prerequisites: adequate training in comparative anatomy and embryology. DR. MARKEE AND STAFF

M202. Microscopic Anatomy.—Conferences and laboratory work on the morphological characteristics of the tissues of the animal body. The work is based upon a study of fresh and prepared material and is approached from the physiological viewpoint. Oct., 1944-Feb., 1945. Hours and credits (maximum 3 s.h.) by arrangement. Prerequisite: adequate training in histology or cytology. DR. MARKEE AND STAFF

M203. Anatomy of the Nervous System.—A study of the gross and microscopic structure of the human central nervous system, special attention being paid to the structural and functional relationships between the various nuclei and fiber tracts. Oct., 1944-Feb., 1945. Hours and credits (maximum 4 s.h.) by arrangement. Prerequisite: Anatomy M201. DR. MARKEE

BACTERIOLOGY AND IMMUNOLOGY

M221. Bacteriology and Immunology.—This course is devoted primarily to the study of the biological and immunological relationships of microorganisms in disease. It is not a course in bacteriologic technique. An additional course in technical methods is provided for those who require it. Two hours lecture and 8 hours laboratory per week in fall quarter. Prerequisites: courses in general zoology, general botany, histology and comparative anatomy, general and organic chemistry. 4 s.h. DR. D. T. SMITH AND STAFF

M323. Advanced Bacteriology and Immunology.—This course is intended primarily for graduate students majoring in bacteriology, but it is also available as a minor to such other graduate students in related fields, to whom it is recommended by respective supervising committees and with the approval of the Department of Bacteriology. **8 s.h.** DR. D. T. SMITH AND STAFF

BIOCHEMISTRY

M241. General Biochemistry.—Three lectures, four laboratory periods of three hours each, and one two-hour seminar weekly for eleven weeks. Prerequisites: general chemistry, organic chemistry, elementary physical and analytical chemistry, and at least one year of college biology. May-Oct., 1944. **6 s.h.** DRS. PERLZWEIG AND TAYLOR, AND STAFF

M242. Biochemical Preparations.—Eight hours laboratory with conferences when necessary. This course involves detailed study of the chemistry of enzymes, proteins, fats, carbohydrates and derivatives. Prerequisite: Biochemistry M241. Hours by arrangement. **2 s.h.** DR. TAYLOR AND STAFF

M243-244. Physical Chemical and Colloid Chemical Principles of Biochemistry.—Special emphasis is given to the structure and physical chemistry of proteins, enzymes, viruses, etc. Two hours per week throughout the year. DR. NEURATH

M341. Pathological Chemistry.—Seminar course devoted to a detailed study of the chemical and physical chemical aspects of normal and abnormal metabolism. Two hours per week by arrangement. Prerequisites: Biochemistry M241 and Physiology M261-2.

Laboratory work consisting chiefly of blood and urine analysis in relation to problems discussed will be provided for students desiring it.
DRS. PERLZWEIG, TAYLOR, AND M. L. C. BERNHEIM

M343. Immunochemistry.—A seminar dealing with the fundamentals of immunological reactions in general and with the chemistry of antigen-antibody reactions in particular. **2 s.h.** DRS. MARTIN AND NEURATH

PHYSIOLOGY, PHARMACOLOGY, AND NUTRITION

M261-2. Human Physiology and Pharmacology.—Six lectures and twenty laboratory hours per week. Prerequisites: Anatomy M201 and Biochemistry M241 (or equivalents) and at least one year of college physics. May-Oct., 1944. Credits depending on work taken. (Maximum **8 s.h.**)

The lectures in pharmacology, two hours per week, are included in this course and may be taken separately or omitted, depending upon the needs of the student. DR. EADIE AND STAFF

M263. Physiology of Digestion, Metabolism, and Nutrition.—Two hours lectures and conferences and the equivalent of one laboratory period of three hours per week. Prerequisite: Biochemistry M241. May-Oct., 1944. **2 s.h.**

This course constitutes a part of Physiology M261-2, but may be taken separately. DRS. DANN, EADIE, AND F. BERNHEIM

M363-4. Advanced Seminar in Nutrition.—Prerequisites: Biochemistry M241 and Physiology M261 or equivalents. Two hours weekly. **4 s.h.**
DR. DANN

ADVANCED DEGREES CONFERRED MAY 22, 1943

MASTER OF ARTS

Baker, Maury Davison, Jr.
Bass, Arnold Marvin
Bierman, Josephine Abigail
Brown, Henry Clay, III
Campbell, Carrie Belle Craig
Chao, Shih Hui
Cleveland, Opal Jean
Come, Donald Robert
Davis, Jesse Maxwell
Dillinger, George Edward
DuBose, Samuel Wilds
Edelmann, Louise Lorraine
Grubin, Leonard Melvin
Heape, Rita Polk
Kneipp, Janet Rettew
Knight, Mary Roberts
Knight, Walter David, Jr.
Lane, James Frank, Jr.
Livingston, Martha Alida Comstock
Loving, Grace Evelyn
Martin, Mary Mercedes
Merkle, Mildred Olive
Noble, Mary Primrose
Prince, Agnes MacGregor
Richardson, Sarah Evelyn
Shivers, Joseph Clois, Jr.
Smith, Virginia Alice
Thompson, Kaye Ogilvie
Waggoner, Brooks Milton
Wiggins, James Wilhelm
Williams, Ruby Malinda
Wissow, Lennard Jay

MASTER OF EDUCATION

Anderson, Ernest Rogers
Carpenter, Nevette Hefner
Frazier, Kathryn Eleanor
Kidd, Rex Charles
Sinks, Helen Adelaide

DOCTOR OF PHILOSOPHY

Barton, Eleanor Phillips, A.B., Woman's College of U. N. C.; A.M., Columbia University.
Dissertation: *The Cyclic Changes of Epithelial Cords in the Dog Ovary.*

Brandis, Roland Buford, Jr., A.B., University of Richmond; A.M., Duke University; M.P.A., Harvard University.
Dissertation: *British War Economy: The First Two Years.*

Brown, Walter Varian, A.B., Sc.M., Brown University.
Dissertation: *Cytological Studies in the Paniceae.*

Buell, Jesse Howard, B.S., Wesleyan University; M.F., Yale University.
Dissertation: *The Prediction of Growth of Uneven-Aged Timber Stands on the Basis of Diameter Distributions.*

Caughey, Mary Gladys, B.S., Geneva College; A.M., Columbia University.
Dissertation: *A Physiological and Ecological Study of Certain Pocosin Plants.*

Chaffin, Nora Campbell, A.B., A.M., Duke University.
Dissertation: *Trinity College, 1839-1892: The Beginnings of Duke University.*

Coleman, Maybelle, A.B., Lander College; A.M., Columbia University.
Dissertation: *Poverty and Poor Relief in the Plantation Society of South Carolina. A Study in the Sociology of a Social Problem.*

Harper, Verne Lester, B.S., M.S., University of California.
Dissertation: *Effects of Fire on Gum Yield of Longleaf and Slash Pines.*

Koch, Sigmund, A.B., New York University; A.M., State University of Iowa.
Dissertation: *Spontaneous Fixation in Rats.*

Krause, James Barber, II, A.B., University of Alabama.
Dissertation: *The Structure and Development of the Gonads of the Wood-Eating Beetle,* Passalus Cornutus *Fabricius.*

Massey, Calvin LeRoy, B.S., Colorado State College; A.M., Duke University.
Dissertation: *The Scolytoidea of North Carolina.*

Punyasingh, Krui, B.S., University of the Philippines; M.S., Cornell University.
Dissertation: *Cytogenetical Studies of Intercrosses Among Diploid, Triploid and Tetraploid Types in* Zea Mays *L.*

Saunders, Ernest William, B.S., S.T.B., Boston University.
Dissertation: *The Textual Criticism of a Medieval Manuscript of the Four Gospels (Duke Ms. Gr. 7).*

Saz, Arthur Kenneth, B.S., College of the City of New York; A.M., University of Missouri.
Disseration: *The Effect of Aromatic Iodine Compounds on the Growth and Metabolism of the Tubercle Bacillus.*

Schultz, Harold, A.B., Columbia University; A.M., Duke University.
Dissertation: *South Carolina and National Politics, 1852-1860: A Study of the Movement for Southern Independence.*

Smith, Edwin Studley, B.S., Furman University.
Dissertation: *Synthesis of Anthracene Derivatives.*

Talbert, Robert Harris, A.B., B.S., Southeast Missouri State Teachers College; A.M., University of Missouri.
Dissertation: *The Emergence of Ruraltown.*

Teagarden, Lucetta Jane, A.B., Wilson College; A.M., Duke University.
Dissertation: *Thomas Middleton's Dramatic Materials.*

Ward, William Smith, A.B., Georgetown College; A.M., Harvard University.
Dissertation: *The Criticism of Poetry in British Periodicals, 1798-1820, with a Handlist of Periodicals and a Check-list of Reviews.*

Watts, Helena Brawley, A.B., A.M., Duke University.
Dissertation: *Jonson's Theory and Practice in Regard to the Didactic Theory of Poetry.*

Wellwood, Robert William, B.A.Sc. in F.E., University of British Columbia; M.F., Duke University.
Dissertation: *The Physical-Mechanical Properties of Certain West Indian Timbers.*

Werbel, Burton, A.B., New York University; A.M., Duke University.
Dissertation: *Magnetic and Spectrophotometric Investigations of Some Complex Ions of Iron and Nickel.*

Whitman, William Tate, A.B., A.M., Duke University.
Dissertation: *The Forest Products Industries of the South and Future Employment Possibilities.*

Wilson, Charles Christopher, B.S., University of Miami.
Dissertation: *The Effect of Some Environmental Factors on the Movements of the Guard Cells.*

ADVANCED DEGREES AWARDED IN SEPTEMBER, 1942

MASTER OF ARTS

Aimar, Carolina Picault
Barton, Jessie Beatrice Smith
Boney, Nancy Virginia
Brooks, Jessie Mae
Buller, Laura Eshleman
Carter, Maude
Chambers, Moreau Browne Congleton
Chisman, Margaret Sue
Christy, Wayne Herron
Clark, Martha Louise
Cooper, John Marvin
Covington, Philip Stanhope Sheffield
Cox, Esther Lee
Darlington, Lacy Neil
Fultz, Mary Catherine
Gibbs, Frances Ruth
Godard, Doris Elizabeth
Gordon, Donald Precourt
Guito, Anna Shepherd
Haag, Vincent Harold
Herndon, Nannie Mae
Hershey, John Warren
Hill, Cleo Madeline
Holcombe, Lena Mae
Holzworth, Robert Haviland
Hooper, Charlotte Lucille
Horton, George Raymond
Howard, Lula Virginia
Jay, Lemuel Eugene
Johnson, Kathryn Eloise
Kiser, Vernon Benjamin
Lang, Cecil Yelverton
Martz, Edward Everts
Melton, Jack Robert
Mitchell, Katherine Hurt
Morana, Simon Joseph
Mowshowitz, Israel
Paschal, Mary Naomi
Pratt, Ellis Carl
Pushard, Gladys Garrett
Rasor, Ellen Frances
Ratcliffe, Anne King
Robinson, Woodrow Wilson
Rodgers, Charles Leland
Sams, Alma Frances
Scheraga, Harold Abraham
Sites, Thelma Wilson
Sleichter, Martha Beryl
Sutor, Jack Alexander
Tabor, Dorothy Hazel
Thomas, Nettie Florence
Thompson, Evan Lewis
Tomeny, Rose Nell
Trent, Rosalind Lee
Whitlatch, Lewis Wade
Wilhite, Arthur Bolton
Wolfarth, William
Wyly, Anne Ethel
Young, Worth John

MASTER OF EDUCATION

Backus, Elbert Leon
Backus, Tulsa Eloise
Black, Roland Joseph
Blackburn, John Hartley
Burdette, Dorothy Nell
Burkhardt, William Emory
Burks, Harry Hunter, Jr.
Byrd, James Curtis
Chatfield, Carolyn Lucinda
Collins, Annie Ethelene
Cope, Lois Ruth
Daniels, Archie Shields
Etzel, William George
Flanders, Horace Marion, Jr.
Funk, Thorold Shaffer
Gatlin, Ruth Arrie
Gentry, Thomas Oliver
Haliburton, Hilda Smathers
Harris, Adah Lenora
Henderson, Florence Madelyn
Holst, Louis Samuel
Hook, Kenneth Boyd
Hughes, Sanford William
Johnson, Clyde Alexander
Jones, Vivienne Allen
Krebs, Vera May
Madison, Graham Rex
Mannello, George, Jr.
Mannello, Jeannette Domres
Marshall, Harris Andrew
Mitchell, Isaac Leonidas
Mowrey, Corma Alice
Newlon, Merle Dwight
Ouzts, James Byrnes
Packard, Emerson Warren
Pinnell, Margaret Smoot
Rickman, Raymond Horatio
Robinson, James Seward, Jr.
Scott, Bernice Murray
Shufflebarger, Irma Frances
Smith, Mary Wilson
Smith, Ruby Elizabeth
Southerland, Beatrice Marie Carver
Starnes, Charles Fugate
Usrey, Nancy Emily
Weathers, Ray Elam
West, Harold Fane
Wilson, Raymond G.

GRADUATE STUDENTS

ACADEMIC YEAR, 1943-44

*Adams, Joe Taylor — Dallas, Tex.
B.S. (Southern Methodist University), Chemistry.

Baker, Maury Davison, Jr. — Richmond, Va.
A.B. (University of Miami); A.M. (Duke University), History.

*Bass, Arnold Marvin — New York, N. Y.
B.S. (College of the City of New York); A.M. (Duke University), Physics.

Baumgarten, Erwin — Pasadena, Calif.
B.S. (California Institute of Technology); A.M. (University of California at Los Angeles), Chemistry.

†Bentley, Nancy Joyce — Ravenna, Ohio.
A.B. (Duke University), Botany.

Bevan, William, Jr. — Plains, Pa.
A.B. (Franklin and Marshall College); A.M. (Duke University), Psychology, Zoology, Education.

*Bishop, Benjamin Harold — Spartanburg, S. C.
A.B. (Wofford College), Chemistry.

*Bloom, Melvin Sigmund — Greenville, S. C.
B.S. (Furman University), Chemistry.

Braverman, Howard — Brooklyn, N. Y.
A.B. (Brooklyn College), History, Religion.

Bryan, Thomas Conn — Skyland, N. C.
A.B. (Duke University); A.M. (University of North Carolina), History.

Buchanan, Edith — Cullowhee, N. C.
A.B. (Meredith College), English, Philosophy.

Candler, Frances Godfrey — Madison, Ga.
A.B. (Randolph-Macon Woman's College), History, Sociology.

Carroll, Howard — Easton, Md.
A.B. (Universtiy of Richmond); B.D. (Duke University), Religion, Greek, Latin.

Cole, Belle — Charlotte, N. C.
A.B. (Winthrop College); M.R.E. (Southwestern Baptist Seminary), Education.

Collins, Herbert — Brooklyn, N. Y.
A.B. (Brooklyn College), History, Economics.

Cooper, Joel Aubrey — Paragould, Ark.
A.B. (Hendrix College); B.D. (Duke University), Religion.

Crockett, Mary Winston — Arlington, Va.
B.S. (University of Virginia), Religion.

*Deal, Carl Hosea, Jr. — Salisbury, N. C.
B.S. (Duke University), Chemistry.

DuBose, Samuel Wilds — Hillsboro, N. C.
A.B. (Davidson College); B.D. (Union Theological Seminary); A.M. (Duke University), Religion.

Eagles, Pauline Uzzell — Durham, N. C.
A.B. (University of North Carolina), Education.

Elliott, Flavel Scott — Durham, N. C.
A.B. (Dartmouth College); A.M. (University of North Carolina), English

Erickson, John Otto — Hibbing, Minn.
B.S. (University of Minnesota), Biochemistry.

* Enrolled under special science calendar July 1, 1943-June 30, 1944.
† Candidate for A.B., May, 1944.

Evans, Alona Elizabeth — Durham, N. C.
A.B. (Duke University), Political Science.

*Field, Frank Henry — Cliffside Park, N. J.
B.S. (Duke University), Chemistry.

*Freiser, Henry — Durham, N. C.
B.S. (College of the City of New York); A.M. (Duke University), Chemistry.

Frey, Ellen Frances — Durham, N. C.
A.B. (Barnard College); A.M. (Duke University), English.

Fries, Jean Nevin — Chambersburg, Pa.
A.B. (Wilson College), English.

**Gardner, Arthur Parcel — Moscow, Pa.
A.B. (Duke University), German.

*Gilbert, Alfred Rachels — Richmond, Va.
B.S. (University of Richmond); A.M. (Duke University), Chemistry.

Goodwin, Noma Lee — Durham, N. C.
A.B. (Duke University), English.

Green, Charles Sylvester — Durham, N. C.
A.B. (Wake Forest College); A.M., B.D. (Duke University), Religion.

Gue, Irma — Marshalltown, Iowa
B.S. (University of Minnesota), Biochemistry.

Hagan, Emma Jane — Suffolk, Va.
A.B. (Mary Baldwin College), History, Political Science.

*Hendricks, Warren Aiken — Elizabeth City, N. C.
B.S. (Duke University), Physics.

Hertz, Hilda — Forest Hills, L. I., N. Y.
A.B. (Skidmore College), Sociology.

*Holub, Fred Franklin — Cleveland, Ohio
B.S. (Adelbert College of Western Reserve University), Chemistry.

Hopkins, Betty Barbara — Greensboro, N. C.
A.B. (Woman's College of the University of North Carolina), English.

Huff, Jesse William — Jeannette, Pa.
B.S. (University of Pittsburgh), Biochemistry, Chemistry.

Hull, Alma Louise — Harrisburg, Pa.
A.B. (Duke University), Psychology.

Johnson, Daniel Sloan — Oxford, N. C.
A.B., A.M. (Duke University), Education.

Johnson, Lawrence Clifford — Raleigh, N. C.
A.B. (State University of Iowa), Psychology, Education.

Kao, Katherine Chun Ch'un — Peiping, China
A.B., A.M. (Yenching University), Psychology.

Kennedy, Philip Edward — Fairmont, W. Va.
A.B. (Fairmont State Teachers College); A.M. (West Virginia University), English.

Keppel, Dorothy Jane — Berea, Ohio
A.B. (Heidelberg College), Sociology, Economics, Psychology.

King, Sara Edna — Beaver Falls, Pa.
A.B. (Geneva College), Religion, History.

*Kingsbury, Ralph Norman — Milton, Mass.
B.S. (Northeastern University), Chemistry.

Kingston, Marion Josephine — Melrose, Mass.
A.B. (Mount Holyoke College), English.

* Enrolled under special science calendar July 1, 1943-June 30, 1944.
** Candidate for A.B., May, 1944.

Kinsman, Margaret Eleanor — Peoria, Ill.
A.B. (MacMurray College), History.

*Kittila, Richard Sulo — Ely, Minn.
B.Chem. (University of Minnesota), Chemistry.

*Knight, Walter David, Jr. — Newton Centre, Mass.
A.B. (Middlebury College); A.M. (Duke University), Physics.

Knox, Norman Davis — McKeesport, Pa.
A.B. (Swarthmore College), English.

Krathwohl, Betty Augenstine — Silver Creek, N. Y.
B.S. (Alfred University), Zoology, Psychology.

Krauss, Anna — New York, N. Y.
A.B. (Hunter College), Biochemistry.

Kreps, Clifton Holland, Jr. — Norfolk, Va.
A.B. (The College of William and Mary); A.M. (University of North Carolina), Economics, Political Science.

Krummel, Mary Eleanor — Durham, N. C.
A.B. (Duke Universtiy); B.S. (Institute of Musical Art), French, Spanish.

Lair, Eugenie Dille — Cynthiana, Ky.
A.B. (Randolph-Macon Woman's College), Botany.

*Levine, Robert — East Boston, Mass.
A.B., A.M. (Dartmouth College), Chemistry.

Lieb, Ruth Marjorie — New York, N. Y.
A.B. (Queens College), English.

Little, Sue Allen Warren — Durham, N. C.
A.B. (East Carolina Teachers College), Psychology.

Loveland, Clara Olds — Glendale, Ohio
A.B. (Wellesley College); A.M. (Columbia University); B.D. (Berkeley Divinity School), Religion, Education.

Luborsky, Lester Bernard — Philadelphia, Pa.
A.B. (Temple University); A.M. (Duke University), Psychology, Education, Zoology.

*Lyons, Richard Edwin — Buffalo, N. Y.
A.B. (University of Buffalo), Physics.

McAndrew, Florence Helton — Chicago, Ill.
A.B. (Mary Baldwin College); A.M. (Northwestern University); Psychology, Sociology.

McClain, Howard Gordon — Sherman, Tex.
A.B. (Vanderbilt University); B.D. (Southern Baptist Theological Seminary), Religion.

McLennan, Marietta — Greensboro, N. C.
A.B. (Woman's College of the University of North Carolina), Education, Psychology.

McNeill, Ellis Meade — Athens, W. Va.
A.B. (Concord State Teachers College); M.S. (West Virginia University), Botany, Forestry.

*Manes, Milton — New York, N. Y.
B.S. (College of the City of New York), Chemistry.

Matte, Lorenzo — Quebec City, Canada
B.A. (Laval University); M.F. (Duke University), Forestry, Mathematics.

Miller, Annie Donnell — Durham, N. C.
A.B. (University of North Carolina), Education, French.

*Moore, Edward James, Jr. — Getzville, N. Y.
A.B. (University of Buffalo), Physics.

Morris, Clara Juanita — Benham, Ky.
A.B. (Berea College), Economics.

* Enrolled under special science calendar July 1, 1943-June 30, 1944.

*†Nauman, Robert Vincent — Stroudsburg, Pa.
B.S. (Duke University), Chemistry.

O'Brien, Joseph William — Kingsville, Ohio
A.B. (Georgetown College); B.D. (Colgate-Rochester Divinity School), Religion, Philosophy.

Oglesby, Roscoe Ralph — Lynchburg, Va.
A.B. (Georgetown College); A.M. (University of Virginia), Political Science.

Parks, Elizabeth Miriam — Denver, Colo.
A.B. (Grinnell College), English.

Phillips, Edward Lindsey — Durham, N. C.
A.B., A.M. (Duke University), Education.

*Phillips, Preson Peek, Jr. — Durham, N. C.
B.S., A.M. (Duke University), Chemistry.

Pirkle, Eva Ann — Decatur, Ga.
A.B. (Agnes Scott College), Mathematics.

Pohl, Marian Evelyn — Trenton, N. J.
B.S. (Duke University), Zoology.

Ramsay, Charles McKay — Lynnville, Tenn.
A.B. (Berea College); B.D. (Union Theological Seminary), Religion, Greek, Latin.

*Randall, Elma Louise — Daytona Beach, Fla.
A.B. (John B. Stetson University), Zoology.

*Rapoport, Lorence — Hartford, Conn.
A.B. (Harvard College), Chemistry.

Raskin, Vilma Leah — Brooklyn, N. Y.
A.B. (Brooklyn College), English, Philosophy.

Raymond, Ruth — Durham, N. C.
A.B. (University of Chattanooga), Bacteriology, Botany, Zoology.

Richards, Claud Henry, Jr. — Fort Worth, Tex.
A.B. (Texas Christian University); A.M. (Duke University), Political Science.

Roebuck, Julian Baker — Wilson, N. C.
A.B. (Atlantic Christian College), Sociology, History.

*Rosenbaum, Haskell Menachim — Sunnyside, N. Y.
B.S. (College of the City of New York), Chemistry.

Rudisill, Dorus Paul — Durham, N. C.
A.B. (Lenoir Rhyne College); A.M. (University of South Carolina); B.D. (Lutheran Theological Southern Seminary); S.T.M. (Hartford Theological Seminary), Religion, Philosophy.

Schaedler, Frances Ann Craghead — Lynchburg, Va.
A.B. (Randolph-Macon Woman's College); A.M. (Duke University), Latin, Greek.

Schafer, Thomas Anton — Liverpool, Ohio
A.B. (Maryville College); B.D. (Louisville Presbyterian Theological Seminary), Religion.

*Scheraga, Harold Abraham — Durham, N. C.
B.S. (College of the City of New York); A.M. (Duke University), Chemistry.

Shapiro, Constance — New York, N. Y.
A.B. (Hunter College), English.

*Shivers, Joseph Clois, Jr. — Riverton, N. J.
B.S., A.M. (Duke University), Chemistry.

Smith, William Jordan Joseph — Dallas, Tex.
A.B. (University of Texas), Economics.

‡Stackhouse, Dorothy Lucile — Washington, D. C.
A.B. (Duke University), Economics, History.

* Enrolled under special science calendar July 1, 1943-June 30, 1944.
† Candidate for B.S. degree, June, 1944.
‡ Candidate for A.B. degree, May, 1944.

Starr, Homer Pilgrim — Burlington, N. C.
A.B. (The University of the South); B.D. (Virginia Theological Seminary). Philosophy.

Stone, Ann — Jackson, Miss.
A.B. (Millsaps College), Spanish, French.

*Tarrant, Paul — Durham, N. C.
B.S. (Howard College); M.S. (Purdue University), Chemistry.

Taylor, Harold Norman — Jasonville, Ind.
A.B., A.M. (State University of Iowa), History.

Thevaos, Deno George — Augusta, Ga.
A.B. (Emory University), Education, Psychology.

Tomlinson, Muriel Dorothy — Manchester, Conn.
A.B. (Bates College), French, Spanish.

*Tompson, Reade Yates — Attleboro, Mass.
B.S. (Brown University), Chemistry.

Townsend, Freda Liverant — York, Pa.
A.B., A.M. (Duke University), English.

Truscott, Ethel Irene — Lomas de Zamora, Argentina
A.B. (Coker College), English.

Vicars, Agnes Mae — Wise, Va.
B.S. (Radford State Teachers College), Education, Zoology.

Volkin, Elliot — Mt. Pleasant, Pa.
B.S. (Pennsylvania State College), Biochemistry, Chemistry.

*Walker, Howard George, Jr. — Westfield, N. J.
B.S. (Duke University), Chemistry, Physics.

Wall, Mildred Eugenia — Birmingham, Ala.
A.B. (Birmingham-Southern College), History, English.

Walter, Margaret VanHorne — Durham, N. C.
A.B. (University of Illinois), English.

†Warren, Margaret Elizabeth — Shaker Heights, Ohio
A.B. (Duke University), Chemistry.

*Weiss, Martin Joseph — New York, N. Y.
A.B. (New York University), Chemistry.

Weith, Archie James, Jr. — Caldwell, N. J.
A.B., A.M. (Duke University), Chemistry.

Wellborn, Mary Moss — Durham, N. C.
A.B. (Mississippi State College for Women), English.

Wiggins, Elizabeth Lewis — Holly Hill, S. C.
A.B. (Winthrop College); A.M. (Duke University), English, Philosophy.

Wiggins, Pauline Evelyn — Birchwood, Tenn.
A.B. (University of Chattanooga), English.

Wilson, Jane Bliss — Durham, N. C.
A.B. (Duke University); A.B. in Library Science (University of North Carolina), English, French.

Wilson, Ulrey Kaulbach — Durham, N. C.
A.B. (University of Chattanooga), Education.

*Wissow, Lennard Jay — Philadelphia, Pa.
B.S. (Pennsylvania State College); A.M. (Duke University), Chemistry.

Wood, Virginia Loraine — Roanoke, Va.
A.B. (Roanoke College), Political Science, History.

Woodbridge, Charles Jahleel — Salisbury, N. C.
A.B., A.M., Th.B. (Princeton University), Religion, History.

* Enrolled under special science calendar July 1, 1943-June 30, 1944.
† Candidate for A.B. degree, May, 1944.

*Yost, Robert Stanley — Pottsville, Pa.
B.S. (Pennsylvania State College), Chemistry.

Young, Franklin Woodrow — Chester, Pa.
A.B. (Dartmouth College); B.D. (Crozer Theological Seminary), Religion, Greek Latin.

SUMMER OF 1943; FIRST TERM

Adams, Joe Taylor — Dallas, Tex.
B.S. (Southern Methodist University), Chemistry.

Ahalt, Paul Edwin — Vinton, Va.
A.B. (Roanoke College), Education.

Amore, Salvatore Thomas — Brooklyn, N. Y.
A.B. (Brooklyn College); A.M. (Duke University), Chemistry.

Anderson, Lucian Dumas — Seneca, S. C.
A.B. (Winthrop College), English.

Archibald, Jean Marie — North Amherst, Mass.
A.B. (Massachusetts State College), Education.

Ausherman, Margaret Hannah — Fayetteville, Pa.
B.S. (Shippensburg State Teachers College), Education.

Autry, Randall Franklin — Godwin, N. C.
A.B. (University of North Carolina), English.

Baker, Maury Davison, Jr. — Richmond, Va.
A.B. (Universtiy of Miami); A.M. (Duke University), History.

Baldwin, Arda Palmer — Wood, Pa.
A.B. (Emory and Henry College), Education.

Ballagh, Robert Hamilton — Bedford, Va.
A.B. (Lynchburg College), Education.

Barnes, George Hector — Logan, Utah
B.Sc.F. (University of Washington); M.S. (University of California), Forestry.

Baumgarten, Erwin — Pasadena, Calif.
B.S. (California Institute of Technology); A.M. (University of California at Los Angeles), Chemistry.

Bell, Helen Foreé — Bluefield, W. Va.
B.S. (West Virginia University), Education.

Benham, Ruth Virginia — St. Petersburg, Fla.
B.S. (Birmingham-Southern College), Education.

Best, Albert Hartwell, Jr. — Durham, N. C.
A.B. (Wofford College), Education.

Bevan, William, Jr. — Wilkes-Barre, Pa.
A.B. (Franklin and Marshall College), Psychology.

Black, Caroline Banks — Charleston, S. C.
A.B. (College of Charleston), History.

Blakeslee, Edward Ray, Jr. — Wilmington, N. C.
B.S. (East Stroudsburg State Teachers College), Education.

Blakeslee, Verna Treat — Wilmington, N. C.
B.S. (East Stroudsburg State Teachers College), English.

Blanton, Mayme Betty Newbern — Gatlinburg, Tenn.
A.B. (Chowan College), Education.

Bloom, Melvin Sigmund — Greenville, S. C.
B.S. (Furman University), Chemistry.

Bowman, Audria Mae — McConnell, W. Va.
A.B. (Marshall College), Education.

* Enrolled under special science calendar July 1, 1943-June 30, 1944.

Browning, Lawrence Lonville Eptan — Logan, W. Va.
B.S. (Illinois Institute of Technology), Education.

Burch, Sarah Frances — Hughes, Ark.
B.S. (Memphis State College), Education.

Burts, Robert Milton, Jr. — Honea Path, S. C.
A.B. (Berry College), History.

Cappellari, Silea Amelia — Beckley, W. Va.
A.B. (St. Mary of the Springs), Spanish.

Chanal, Anna Maxine — Kansas City, Mo.
B.S. (Teachers College of Kansas City), Education.

Chapman, Mildred Frances — Hartford, W. Va.
A.B. (Marshall College), Education.

Chew, Jeanne Maurer — Pittsburgh, Pa.
A.B. (Pennsylvania State College), Spanish.

Coble, Joseph Fillmore — Tabor City, N. C.
A.B. (High Point College); S.T.B. (Westminster Theological Seminary), Religion

Cockman, Hazel — Durham, N. C.
A.B. (Duke University), Education.

Cook, Annie Virginia — Roanoke, Va.
A.B. (Randolph-Macon Woman's College), History.

Cooper, Frances Harlee — Spartanburg, S. C.
A.B. (Carson-Newman College), History.

Copp, Earl Picard — Middlebury, Conn.
A.B. (Dartmouth College), English.

Council, Annabelle — Durham, N. C.
B.S. (Appalachian State Teachers College), English.

Craig, Martha Myers — Toronto, Ohio
A.B. (Muskingum College), Education.

Creath, William Fontaine — South Boston, Va.
B.S. (University of Richmond), Education, Economics.

Cole, Margaret Evelyn — Baldwyn, Miss.
A.B. (Mississippi State College for Women), Zoology.

Dale, Dorothy Jeanne — Murray, Ky.
A.B. (Murray State Teachers College), English.

Day, Margaret Kathleen — Statesville, N. C.
B.S. (Appalachian State Teachers College), Education.

Deal, Carl Hosea, Jr. — Salisbury, N. C.
B.S. (Duke University), Chemistry.

Duke, Mary Catherine — Bakerton, W. Va.
A.B. (Shepherd State Teachers College), History.

Edmeston, Rhoda Christena — Blyth, Ontario, Canada
A.B. (University of Denver); A.M., Ph.D. (Boston University), Spanish.

Ellis, Ivy Mary Phillips — Durham, N. C.
A.B. (East Carolina Teachers College), Education.

Erickson, John Otto — Hibbing, Minn.
B.S. (University of Minnesota), Biochemistry.

Evans, Eunice Ledbetter — Morganton, N. C.
A.B. (Salem College), Education.

Fant, Alethea Blackmore — Warsaw, N. C.
B.S. (Mary Washington College), Sociology.

Field, Frank Henry — Cliffside Park, N. J.
B.S. (Duke University), Physics.

Flaherty, Anne Grace — Pittston, Pa.
B.S. (Mansfield State Teachers College), Education.

Flanagan, William Leroy — Kite, Ga.
B.S. (South Georgia Teachers College), Education.

Fohl, Jean Mae — Biglerville, Pa.
B.S. (Shippensburg State Teachers College), Education.

Foster, Sarah Lettice — Clifton, S. C.
A.B. (Winthrop College); A.M. (Columbia University), Spanish.

Freiser, Henry — Durham, N. C.
B.S. (College of the City of New York); A.M. (Duke University), Chemistry.

Garrison, Evelyn Crutchfield — East Bend, N. C.
A.B. (Meredith College), Education.

Garrison, Roy Charles — East Bend, N. C.
A.B. (Carson-Newman College); A.M. (Duke University), Education.

George, Ida Maria — Comfort, N. C.
A.B. (East Carolina Teachers College), English.

Gilbert, Alfred Rachels — Dyersburg, Tenn.
B.S. (University of Richmond), Chemistry.

Grose, Georgianna Mary — Huntington, W. Va.
A.B. (Marshall College), Education, Sociology.

Guesman, Adelaide Ivill — Monongahela, Pa.
B.S. (California State Teachers College), Education.

Harbison, James Wesley — Pinehurst, N. C.
A.B. (Duke University), Education.

Harman, Ivey Cilvia — Washington, N. C.
A.B. (Atlantic Christian College), Education.

Harrell, Margaret Elizabeth — Cordele, Ga.
A.B. (Wesleyan College), Religion.

Hartman, Inez Rebecca — Hixson, Tenn.
A.B. (University of Chattanooga), Spanish.

Haslam, George Harold — Milledgeville, Ga.
A.B., A.M. (University of Georgia), Economics.

Haugh, Florence Irma — Pittsburgh, Pa.
A.B. (Geneva College), Spanish.

Heagy, Dorothy May — York, Pa.
B.S. (Millersville State Teachers College), Education.

Hix, David Neal — Williamston, N. C.
A.B. (Duke University), Education.

Holston, Norene — Montcalm, W. Va.
A.B. (Concord State Teachers College), Education.

Holub, Fred Franklin — Cleveland, Ohio
B.S. (Western Reserve University), Physics.

Hood, Mallie Roy — Danville, Va.
A.B. (Mississippi College), Zoology.

Huff, Jesse William — Jeannette, Pa.
B.S. (University of Pittsburgh), Biochemistry.

Huntley, Arthur Gene — Salem, Ore.
A.B. (Willamette University), Economics.

Hurd, Shirley Elizabeth — Clarksburg, W. Va.
A.B. (Fairmont State Teachers College), English.

Ingram, Mary Middleton — Wilmington, N. C.
A.B. (Woman's College of the University of North Carolina), Education.

Jacobs, Edith Herlong Barfield — Miami, Fla.
A.B. (Duke University), Education.

Jenkins, Wilmer Mitchell — Durham, N. C.
B.S. (Wake Forest College), Education.

Johnson, Emma Bain — Thomasville, N. C.
A.B. (Duke University), English.

Joyner, Alma Luna — Zebulon, N. C.
B.S. (Appalachian State Teachers College), Education.

Kellar, Maynard Herbert — Malden, W. Va.
A.B. (Fairmont State Teachers College), Education.

Kelly, Kathleen Eliza — Warren, Ohio
A.B. (Ohio University), Education.

Keppel, Dorothy Jane — Berea, Ohio
A.B. (Heidelberg College), Sociology, Education.

Kern, Mary Katharine — Winchester, Va.
A.B. (Goucher College), English.

Kittila, Richard Sulo — Ely, Minn.
B.Chem. (University of Minnesota), Chemistry.

Koon, Macel — Spencer, W. Va.
A.B. (Alderson-Broaddus College), Education.

Law, James Vincent — Ridgeway, Va.
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A.B., A.M. (Dartmouth College), Chemistry.

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Lorman, Justine Helen — Philadelphia, Pa.
A.B. (University of Pennsylvania), English.

Loveless, Ruth — Mt. Dora, Fla.
A.B. (Florida State College for Women), English.

Luborsky, Lester Bernard — Philadelphia, Pa.
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Paskins, Cloyd Woodrow — Matton, Ill.
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Powell, Lillie Mae — Kingsport, Tenn.
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A.B. (Florida State College for Women), Sociology.

Richards, Claud Henry, Jr. — Fort Worth, Tex.
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A.B. (Meredith College), History.

Spangler, Dorn Odell — Meadows of Dan, Va.
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B.S. (Millersville State Teachers College), Education.

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Tarrant, Paul — Durham, N. C.
B.S. (Howard College); M.S. (Purdue University), Chemistry.

Taylor, Donald Lavor — Ephraim, Utah
B.S., M.S. (Utah State Agricultural College), Sociology.

Taylor, Louise Randall — Buie's Creek, N. C.
A.B. (John B. Stetson University), Zoology.

Taylor, Melvin Holmes — Charlotte, N. C.
A.B. (Duke University), Education.

Tiel, Eleanor Elizabeth — Pittsburgh, Pa.
A.B. (Pennsylvania College for Women), Education.

Tompson, Reade Yates — Attleboro, Mass.
Sc.B. (Brown University), Chemistry.

Trammell, Frances Mauldin — Auburn, Ala.
B.S., M.S. (Alabama Polytechnic Institute), English.

Trivette, Ruth Jane Whitman — Hickory, N. C.
A.B. (Marshall College), Education.

Volkin, Elliot — Mt. Pleasant, Pa.
B.S. (Pennsylvania State College), Chemistry.

Walden, Mary Grace — Macon, Ga.
A.B. (Wesleyan College), Education.

Walker, Howard George, Jr. — Westfield, N. J.
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Walker, Thelma Pauline — Johnson City, Tenn.
B.S. (East Tennessee State Teachers College), History.

Webb, Lester Dell — Sweatman, Miss.
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Wiggins, Pauline Evelyn — Birchwood, Tenn.
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Wilmore, Nancy Strother — Bluefield, W. Va.
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Wilson, Elna Louise — Philippi, W. Va.
A.B. (Alderson-Broaddus College), English.

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Woodward, Leonard Groninger — Garland, N. C.
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Yost, Robert Stanley — Pottsville, Pa.
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Zeigler, Frances Chambers — Tampa, Fla.
B.S. (Florida Southern College), Education, Sociology.

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Autry, Randall Franklin — Godwin, N. C.
A.B. (University of North Carolina), English

Beeson, Ann Campbell — Johnson City, Tenn.
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Bevan, William, Jr. — Wilkes-Barre, Pa.
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Blakeslee, Verna Treat — Wilmington, N. C.
B.S. (East Stroudsburg State Teachers College), Education.

Blanton, Mayme Betty Newbern — Gatlinburg, Tenn.
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Bowman, Audria Mae — McConnell, W. Va.
A.B. (Marshall College), Education.

Brosius, Magdalene Hershey — Atglen, Pa.
B.S. (West Chester State Teachers College), Education.

Browning, Lawrence Lonville Eptan — Logan, W. Va.
B.S. (Illinois Institute of Technology), Education.

Bulwinkle, Muriel Charlton — Gastonia, N. C.
A.B. (Duke University), English, Education.

Burts, Robert Milton, Jr. — Honea Path, S. C.
A.B. (Berry College), History.

Cook, Viola — Whitesburg, Ky.
A.B. (Kentucky Wesleyan College), English.

Copp, Earl Picard — Middlebury, Conn.
A.B. (Dartmouth College), English.

Craig, Miriam — Columbus, Ga.
B.S. (Georgia State College for Women), Education.

Creath, William Fontaine — South Boston, Va.
B.S. (University of Richmond), Education.

Erickson, John Otto — Hibbing, Minn.
B.S. (University of Minnesota), Chemistry.

Fant, Alethea Blackmore — Warsaw, N. C.
B.S. (Mary Washington College), Eucation.

Flaherty, Anne Grace — Pittston, Pa.
B.S. (Mansfield State Teachers College), History, English.

Flanagan, William Leroy — Kite, Ga.
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Graham, George Sylvester — Staunton, Va.
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Guesman, Adelaide Ivill — Monongahela, Pa.
B.S. (California State Teachers College), Education.

Harrell, Margaret Elizabeth — Cordele, Ga.
A.B. (Wesleyan College), Religion.

Hendler, Cornelia Clara — Buffalo, N. Y.
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Hiott, Sherrill Craig — Lancaster, S. C.
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A.B. (Duke University), Education.

Johnson, Emma Bain — Thomasville, N. C.
A.B. (Duke University), Education.

Johnson, Rosemary Veronica — Chevy Chase, Md.
B.S. (Wilson Teachers College), Education.

Kagy, Joseph Archer — DuBois, Pa.
A.B. (Allegheny College), Education.

Kendig, Anna Mae — Conestoga, Pa.
B.S. (Millersville State Teachers College), Education.

Kern, Mary Katharine — Winchester, Va.
A.B. (Goucher College), Religion.

Kilar, Irene Louise — Rahway, N. J.
B.S. (Newark State Teachers College), Education.

Law, James Vincent — Ridgeway, Va.
A.B. (Emory and Henry College), Education.

Leffler, Alice Frederick — Elkton, Md.
B.S. (Hood College), Education.

Lewis, Nancy Eloise — Canton, Ohio
A.B. (Denison University), English.

Loveless, Ruth — Mt. Dora, Fla.
A.B. (Florida State College for Women), English.

Luborsky, Lester Bernard — Philadelphia, Pa.
A.B. (Temple University), Psychology.

McClure, Paul Fleming — DuBois, Pa.
B.S. (Thiel College), Sociology.

McCurdy, John Albert — Matawan, N. J.
B.S. (Rutgers University), Education.

McDonald, Alma Ione — Clinton, Miss.
A.B. (Mississippi College), Education.

Mackay, Pauline Peeler — Orangeburg, S. C.
A.B. (Winthrop College), Education.

MacNeill, Doris Elaine — Penn's Grove, N. J.
B.S. (Glassboro State Teachers College), Education, English.

Malcolm, Pearle Malinda — Philippi, W. Va.
A.B. (Alderson-Broaddus College), Education.

Mathias, Ama Avis — Mathias, W. Va.
B.S. (Madison College), Education.

Moomau, Mary Newlon — Petersburg, W. Va.
A.B. (Davis and Elkins College), Education.

Moore, Bruce Lipscomb — Columbia, S. C.
A.B. (Coker College), English.

Moore, Nelle Elizabeth — Capleville, Tenn.
A.B. (Lambuth College), English.

O'Mara, Margaret Theresa — Millburn, N. J.
B.S. (Newark State Teachers College), Education.

Parker, Edna Earle — W. Palm Beach, Fla.
A.B. (Florida State College for Women), Education.

Paskins, Cloyd Woodrow — Mattoon, Ill.
B.Ed. (Eastern Illinois State Teachers College), History, English.

Patton, Dorothy Jean — Beaver Falls, Pa.
A.B. (Geneva College), English.

Pettenati, Yolanda Bona — Crosby, Pa.
B.S. (Lock Haven State Teachers College), Education.

Pitten, Diana Marie — Kenilworth, N. J.
B.S. (Newark State Teachers College), Education.

Pitts, Mabel Davidson — Jacksonville, Fla.
B.S. (Georgia State College for Women), Education.

Powell, Lillie Mae — Kingsport, Tenn.
A.B. (Carson-Newman College), History.

Pressly, Eleanor Crockett — Greenwood, S. C.
A.B. (Erskine College), Mathematics, Education.

Prickett, Irene Teresa — Fairmont, W. Va.
A.B. (Fairmont State Teachers College), Education.

Propst, Mary Elizabeth — Concord, N. C.
A.B. (Duke University), Education, History.

Rogers, Greene Titus — Mamers, N. C.
A.B. (Wake Forest College), Education.

Russell, Mattie — Carthage, Miss.
A.B., A.M. (University of Mississippi), History.

Salley, Claudia Louise — Biltmore, N. C.
A.B. (University of Tennessee), History.

Salter, Harriett May — Altoona, Pa.
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Schoenberger, Ruth Isobel — Langhorne, Pa.
A.B. (Duke University), English.

Southerland, Myra Azalene — Wilmington, N. C.
A.B. (East Carolina Teachers College), Education.

Spangler, Dorn Odell — Meadows of Dan, Va.
A.B. (Westminster College), Education.

Taylor, Donald Lavor — Ephraim, Utah
B.S., M.S. (Utah State Agricultural College), Sociology.

Walker, Thelma Pauline — Johnson City, Tenn.
B.S. (East Tennessee State Teachers College), Education.

Walters, Margaret Genevieve — Galena, Md.
A.B. (Washington College), Education.

Wiggins, Pauline Evelyn — Birchwood, Tenn.
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Willits, Esther May — Laureldale, Pa.
B.S. (West Chester State Teachers College), History.

Wilson, Ulrey Kaulbach — Chattanooga, Tenn.
A.B. (University of Chattanooga), Education.

Woodward, Leonard Groninger — Garland, N. C.
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SUMMARY OF ENROLLMENT IN THE GRADUATE SCHOOL

Graduate students, Academic Year 1943-44	122
Graduate students, First Summer Term, 1943	174
Graduate students, Second Summer Term, 1943	74
Total	370
Deduct for duplications	85
Total Enrollment	285

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ANNOUNCEMENTS FOR 1944-1945

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DURHAM, NORTH CAROLINA

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For General Bulletin of Duke University, apply to *The Secretary,* Duke University, Durham, N. C.

For Bulletin of Undergraduate Instruction, apply to *The Secretary,* Duke University, Durham, N. C.

For Bulletin of The College of Engineering, apply to *The Secretary,* Duke University, Durham, N. C.

For Bulletin of The Graduate School of Arts and Sciences, apply to *The Dean of the Graduate School,* Duke University, Durham, N. C.

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For Bulletin of The School of Forestry, apply to *The Dean of the School of Forestry,* Duke University, Durham, N. C.

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1944

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UNIVERSITY CALENDAR

TRINITY COLLEGE AND THE COLLEGE OF ENGINEERING

July-October, 1944

July	1, 3-4	Saturday, Monday, Tuesday—Orientation and registration.
July	5	Wednesday, 8:00 A.M.—Instruction begins.
Aug.	25	Friday—Mid-semester grades due.
Oct.	18	Wednesday—Final examinations begin.
Oct.	24	Tuesday—Final examinations end.
Oct.	25	Wednesday—Recess begins.

November, 1944-February, 1945

Nov.	1-2	Wednesday, Thursday—Orientation and registration.
Nov.	3	Friday, 8:00 A.M.—Instruction begins.
Dec.	11	Monday—Duke University Day.
Dec.	16	Saturday—Mid-semester grades due.
Dec.	25-26	Monday, Tuesday—Christmas recess.
Dec.	27	Wednesday, 8:00 A.M.—Instruction resumed.
Feb.	16	Friday—Final examinations begin.
Feb.	22	Thursday—Final examinations end.
Feb.	23	Friday—Recess begins.

March-June, 1945

March	1-2	Thursday, Friday—Orientation and registration.
March	3	Saturday, 8:00 A.M.—Instruction begins.
April	24	Tuesday—Mid-semester grades due.
June	16	Saturday—Final examinations begin.
June	22	Friday—Final examinations end.
June	23	Saturday—Recess begins.

THE WOMAN'S COLLEGE

1944		
Sept.	14	Thursday, 9:00 A.M.—Dormitories open to Freshmen.
Sept.	14	Thursday, 8:00 P.M.—Assembly for all entering Freshmen; Freshman Orientation Program begins.
Sept.	19	Tuesday—Registration and matriculation of new students with advanced standing.
Sept.	20	Wednesday, 12:15 P.M.—Formal Opening of the Woman's College.
Sept.	21	Thursday, 8:30 A.M.—Instruction begins.
Sept.	21	Thursday, 12:30 P.M.—Assembly for all students.
Nov.	30	Thursday—Thanksgiving Day: a holiday.
Dec.	11	Monday—Duke University Day.
Dec.	20	Wednesday, 1:00 P.M.—Christmas recess begins.
1945		
Jan.	4	Thursday, 1:00 P.M.—Instruction is resumed.
Jan.	20	Saturday—Mid-year examinations begin.
Jan.	30	Tuesday—Mid-year examinations end.
Jan.	31	Wednesday—Last day for matriculation for second semester.
Feb.	1	Thursday—Second semester begins.

May	14	Monday—Final examinations for second semester begin.
May	24	Thursday—Final examinations end.
May	26	Saturday—Commencement Day.

THE GRADUATE AND PROFESSIONAL SCHOOLS, AND THE SUMMER SESSION*

1944

May	29	Monday—Opening of the summer semester of the School of Law.
May	30	Tuesday—Certain Summer Session classes begin.
June	19	Monday—Registration for first term of Summer Session.
June	20	Tuesday—Opening of Summer Session, first term.
July	3	Monday—Opening of summer quarter of Schools of Medicine and Nursing.
July	4	Tuesday—Independence Day: a holiday.
July	31	Monday—First term of Summer Session ends. Registration for second term.
Aug.	1	Tuesday—Second term of Summer Session begins.
Sept.	9	Saturday—Second term of Summer Session ends.
Sept.	9	Saturday—End of summer semester of School of Law.
Sept.	16	Saturday—End of summer quarter of School of Nursing.
Sept.	20	Wednesday, 12:15 P.M.—Formal opening of the University.
Sept.	21-23	Thursday, 9:15 A.M.-12:45 P.M., 2:30 P.M.-4:30 P.M.; Friday, 9:15 A.M.-12:45 P.M., 2:30 P.M.-4:30 P.M.; Saturday, 9:15 A.M.-12:45 P.M.—Registration of graduate students for first semester.
Sept.	22	Friday, 4:00 P.M.—First regular Faculty meeting, Divinity School.
Sept.	23	Saturday—End of summer quarter of School of Medicine.
Sept.	23	Saturday—Matriculation and registration of students, Divinity School.
Sept.	25	Monday—Opening of fall semester of School of Law.
Sept.	25	Monday—Instruction for graduate students begins.
Sept.	25	Monday—Instruction for Divinity School students begins.
Sept.	26	Tuesday—Formal opening exercises of the Divinity School.
Oct.	2	Monday—Opening of autumn quarter of the School of Nursing.
Oct.	5	Thursday—Last day for submitting subjects for B.D. theses.
Oct.	9	Monday—Opening of autumn quarter of the School of Medicine.
Oct.	16	Monday—Last day for submitting thesis subjects for the degree of Doctor of Philosophy.
Nov.	6-11	French examinations for candidates for graduate degree. Candidates register in the Graduate Office for these examinations before October 26.
Nov.	13-18	German examinations for candidates for graduate degrees. Candidates register in the Graduate Office for these examinations before November 2.
Nov.	15	Wednesday—Last day for submitting thesis subjects for the degrees of Master of Arts and Master of Education.

* The School of Forestry has the same schedule that Trinity College and the College of Engineering have.

Nov.	30	Thursday—Thanksgiving Day: a holiday.
Dec.	11	Monday—Duke University Day.
Dec.	20	Wednesday, 1:00 P.M.—Christmas recess begins for Divinity and Graduate Schools.
Dec.	23	End of autumn quarter of Schools of Medicine and Nursing.
1945		
Jan.	1	Monday—Opening of winter quarter for Schools of Medicine and Nursing.
Jan.	4	Thursday, 1:00 P.M.—Instruction is resumed for Graduate and Divinity Schools.
Jan.	10-19	Reading period, Graduate School.
Jan.	18-19	Thursday, Friday, 9:15 A.M.-12:45 P.M.; 2:30 P.M.-4:30 P.M.—Registration of graduate students for second semester.
Jan.	20	Saturday—End of fall semester of School of Law.
Jan.	20	Saturday—Mid-year examinations for Graduate and Divinity Schools begin.
Jan.	22	Monday—Opening of spring semester of School of Law.
Jan.	30	Tuesday—Mid-year examinations for Graduate School end.
Jan.	31	Wednesday—Matriculation and Registration for second semester, Divinity School.
Feb.	1	Thursday—Second semester of Graduate and Divinity Schools begins.
March	1	Thursday—Last day for applying for University fellowships, graduate assistantships, and graduate scholarships.
March	5-10	French examinations for candidates for graduate degrees. Candidates register in the Graduate Office for these examinations before February 29.
March	12-17	German examinations for candidates for graduate degrees. Candidates register in the Graduate Office for these examinations before March 6.
March	17	Saturday—End of winter quarter of School of Nursing.
March	24	Saturday—End of winter quarter of School of Medicine.
April	2	Monday—Opening of spring quarter of School of Medicine.
April	2	Students who expect to receive an advanced degree in May should notify the Graduate Office to that effect.
April	2	Monday—Opening of spring quarter of School of Nursing.
April	6	Friday—Last day for submitting theses for degree of Doctor of Philosophy.
April	18-19	Tuesday, Wednesday—English Bible examinations, Divinity School.
April	23-May 5	Reading Period, Graduate School. Instruction is resumed May 7, Monday, 8:30 A.M.
May	1	Tuesday—Last day for submitting theses for degrees of Master of Arts and Master of Education.
May	3	Thursday—Last day for submitting B.D. theses.
May	12	Saturday—End of spring semester of School of Law.
May	14	Monday—Final examinations begin for Graduate and Divinity Schools.
May	26	Saturday—Commencement Day.
June	16	Saturday—End of spring quarter of School of Nursing.
June	23	Saturday—End of spring quarter of School of Medicine.

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DUKE UNIVERSITY'S WARTIME PROGRAM

Before the United States entered the present world conflict, the Board of Trustees of the University in annual session adopted a resolution placing its facilities at the use of the government as needed in connection with the defense program. A committee was named, headed by the late Daniel C. Roper, former Secretary of Commerce in President Roosevelt's cabinet and a member of the Board, to convey this offer to the President and other officials of the government.

A little later, by using the Summer Session, the Faculty put into effect an accelerated program of studies making possible the graduation of students in three years. A compulsory three-years twelve-months program for students in the School of Medicine was made effective; graduation from the School of Law in two years and two summer sessions was made possible; spring holidays in all departments of the University were abolished, and examination and Commencement periods were shortened.

The Naval R.O.T.C., training students for commissions in the United States Navy, was opened at the beginning of the 1941-42 academic year, and later enlarged. In August, 1942, the Army Finance School, to train officers for the finance division of the Army, was located at Duke. In July, 1943, the Army Fiscal School, to operate as a part of the Army Finance School, was inaugurated.

The Navy College Training Program was inaugurated at Duke on July 1, 1943. This embraces, in addition to the N.R.O.T.C., the following: V-12 Basic Program, V-12 Engineers Program, V-12 Pre-Medical Program, V-12 Special Training for Medical Students, V-12 Training Program for Marine Corps, V-12 Training Program for Coast Guard, H(V)P Medical Training Program.

The Army Training Programs include the following: Finance Officer School, Finance Officer Candidate School, Army Fiscal School, Army Specialized Training Program in Medicine, Clinical Laboratory Course for Army Medical Doctors.

For several years the Civil Pilot Training Program, including both elementary and secondary courses, has trained Naval Air Corps cadets; special defense courses for undergraduates in technical drawing, mathematics of gunfire, electronics, cartography and other courses have been given. Short intensive ESMWT courses have been offered in co-operation with the United States Commissioner of Education; research in defense problems has been carried on at the University voluntarily and by contract with federal agencies; more than one hundred members of the faculty and administrative staff have been called to Washington and other points for essential work in connection with the war effort; the Woman's College has carried on a definite program of war activities.

HISTORY

Duke University owes its existence to a charitable trust set up by James B. Duke by an Indenture dated December 11, 1924, and known as the Duke Endowment; to gifts made by him to the University in the succeeding year; and to bequests that came through his will at his death. October 10, 1925. It is built around Trinity College which was brought to Durham and maintained there largely through the generosity of the Duke family.

Trinity College in its origins goes back to 1838. In that year the citizens of a rural community in the northwest section of Randolph County, North Carolina, established a school with Rev. Brantley York as principal. In 1839 this school was enlarged and named Union Institute. In 1841 it was incorporated by the following enactment of the Legislature of North Carolina:

*An Act to Incorporate Union Institute Academy:**

Be it enacted by the General Assembly of the State of North Carolina, and it is hereby enacted by the authority of the same, That Nathan Hunt, Joseph Mendenhall, Joseph Johnson, Lewis Leach, Jabez Leach, Martin W. Leach, and Ahi Robbins, and their successors, are hereby constituted a body corporate and politic to be known and distinguished by the name and style of the Trustees of the Union Institute Academy, and by that name shall have succession, and shall be able and capable in law to have, receive and possess lands and tenements, goods and chattels, acquired by gift or otherwise, and use and apply the same according to the will of the donor, or dispose of the same when not forbidden by the terms of the gift. They may sue and be sued, plead and be impleaded in any Court of Justice, and shall have power to fill vacancies in their body, which may occur by death, resignation, or otherwise, establish such laws and regulations for the government of said Institution as they may deem necessary, not inconsistent with the laws of this State, and do and perform all such acts and things as are incident to, and usually exercised for, bodies politic, for the accomplishments of the object contemplated.

Ratified the 12th day of January, 1841.

In the year 1842 Braxton Craven became principal of the school. The growth and development of the school caused the Trustees to plan to put it in direct relation to the educational needs of the public schools of the State. Application was made to the Legislature of North Carolina for a new charter, and on January 28, 1851, Union Institute Academy was incorporated as Normal College by the following enactment:

An Act to Incorporate Union Institute, in Randolph County, a Normal College:†

Section 1. Be it enacted by the General Assembly of the State of North Carolina, and it is hereby enacted by the authority of the same, That the present Trustees of Union Institute, to-wit: M. W. Leach, Ahi Robbins, Joseph Johnson, James Leach, and C. M. Hines; together with Rev. B. Craven, of said Institute; Hon. A. H. Sheppard, of Salem; John A. Gilmer, Esq., of Greensboro; Col. Samuel Hargrave, of Lexington; J. L. Blackmer, Esq., of Salisbury; Rev. S. A. Andrews, of Greensboro; Dr. S. G. Coffin, of Jamestown; H. B. Elliott, Esq., of Randolph; J. W. Thomas, Esq., of Davidson; John B. Troy, of Randolph; J. P. H. Russ, of Randolph; Eli Russell, of Montgomery, and Gen. J. M. Leach, of Lexington; and their successors be, and they are hereby declared, a body politic and corporate, to be known and distinguished by the name and style of the Normal College, and by that name shall have a perpetual succession, and a common seal, and be able and capable in law, of holding lands, tenements and chattels, sufficient for the uses and purposes of said College, and of suing and being sued, and of pleading and being impleaded.

Sec. 2. Be it further enacted, That said Trustees shall have the power to fix the time of holding the annual and other meetings, and to prescribe the manner in which vacancies in their body may be filled, five Trustees being a quorum to do business.

Sec. 3. Be it further enacted, That the said College shall be under the supervision, management and government of a President and such other persons as said Trustees may appoint; the said President, with the advice of the other persons so appointed, shall from

* Laws of North Carolina, 1840-1843.

† Laws of 1850-1851, chapter 20, page 56.

time to time make all needful rules and regulations for the internal government of said College, and fix the number and compensations of teachers to be employed therein, to prescribe the preliminary examinations and the terms and conditions on which pupils shall be received and instructed, and the number of pupils to be received from the respective counties.

SEC. 4. Be it further enacted, That said Trustees shall have power to make such rules, regulations and bylaws, not inconsistent with the Constitution of the United States and of this State as may be necessary for the good government of said College, and the management of the property and funds of the same.

SEC. 5. Be it further enacted, That when any pupil shall have sustained a satisfactory examination on the studies, or course of studies, prescribed by the Faculty and Trustees of said College, such person shall be deemed qualified to teach common schools and may receive a certificate, signed by the President and at least seven Trustees, which certificate shall be sufficient evidence of ability to teach in any of the common schools in this State, without any reëxamination of the county committees; and where county certificates are now required before paying out the public funds, the certificate of the Normal College shall answer in lieu thereof.

SEC. 6. Be it further enacted, That the whole College course shall be divided into four classes or degrees, styled first, second, third and fourth, and students shall be ranked accordingly.

SEC. 7. Be it further enacted, That all pupils entering said College shall first sign a declaration, in a book to be kept by the President for that purpose as follows: "We, the subscribers, hereby declare that it is our intention to devote ourselves to the business of teaching common schools in the State of North Carolina, and that our sole object in resorting to this Normal College is the better to prepare ourselves for that important duty," which declaration it shall be the duty of the President to explain to the pupils before they sign the same.

Ratified 28th January, 1851.

On November 21, 1852, the Legislature ratified amendments to the charter of 1851 including changes and additions as follows:

*An Act to Amend an Act, Entitled "An Act to Incorporate Union Institute, in Randolph County, Normal College":**

SECTION 1. Be it enacted by the General Assembly of the State of North Carolina, and it is hereby enacted by the authority of the same, That J. C. Dobbin, John A. Gilmer, W. H. Washington, A. H. Sheppard, H. B. Elliott, J. M. Leach, Joseph Johnson, S. G. Coffin, A. S. Andrews, Joseph B. Cherry, N. W. Woodfin, B. Craven, James Leach, Calvin Graves, Ahi Robbins, John B. Troy, Robert Strange, John W. Thomas, Samuel Hargrave, J. P. H. Russ, M. W. Leach, W. L. Steele, R. M. Saunders, W. B. Lane, G. W. Caldwell, C. H. Wiley, Jabez Leach, John A. Lillington, J. T. Morehead, Thales McDonald, R. C. Puryear, S. P. Hill, Alexander Gray, James M. Garrett, and Edward Ogburn and their successors be, and they are hereby declared, a body politic and corporate to be known and distinguished by the name and style of "The Trustees of Normal College," and by that name and style shall have a perpetual succession and a common seal, and be able and capable in law of holding lands, tenements and chattels for the uses and purposes of said College; and of suing and being sued, and of pleading and being impleaded.

SEC. 2. Be it further enacted, That the Governor of the State shall be *ex-officio* President of the Board of Trustees, and that the common school superintendent, should such an officer exist, shall be *ex-officio* Secretary of the Board, and that all vacancies in the Board shall be filled by a majority of the Trustees of said College.

SEC. 3. Be it further enacted, That the Trustees shall have power of appointing an Executive Committee, to consist of seven members which committee shall control the internal regulations of said College, and fix all salaries and emoluments, and of doing all other things necessary for an institution of learning not inconsistent with the laws of this State and of the United States.

SEC. 4. . . . They shall have also the power to grant such degrees and marks of honor as are given by Colleges and Universities generally.

SEC. 5. Be it further enacted, That the Secretary of the Board of Trustees shall, within ten days after the meeting of each [Legislature] make a full report of the condition and operations of said Normal College, and the general character of Normal instruction; also, the condition and progress of Normal schools generally, together with all other information deemed important in the education of teachers, giving also the names and residences of all who have been authorized to teach.

SEC. 6. Be it further enacted, That the President and Directors of the literary fund are hereby directed to loan to the Trustees of Normal College, the sum of ten thousand dollars out of any moneys not otherwise appropriated, at six per cent interest, to be paid semiannually, upon said Trustees giving bond and good security for the same.

Under the amended charter authorizing the institution to confer degrees, two students were graduated on July 28, 1853, with the degree of Bachelor of Arts.

In the year 1853-1854 a larger building was erected by means of money lent by the State of North Carolina under the authority granted in the

* Laws of 1852-1853, chapter 88, page 161.

amended charter. In November, 1856, the Trustees of Normal College authorized President Craven to propose to the North Carolina Conference of the Methodist Episcopal Church, South, that the institution be placed under the ownership and control of that body. The Conference passed the following resolution:

1. That the Conference authorize and request the Board of Trustees of Normal College to raise by donations twenty thousand dollars.
2. That all lands and property belonging to the College be conveyed to the Board of Trustees in trust for the North Carolina Conference.
3. That the Conference fill all vacancies in the Board.
4. That the Conference appoint a visiting committee, which committee shal have equal power with the Board as to the internal regulations and operations of the College.

Within the following two years the Trustees arranged to meet all the conditions stipulated. The North Carolina Conference of the Methodist Episcopal Church, South, in consequence, became invested with the complete ownership and control of the College.

On February 16, 1859, the charter was amended and the name of the institution changed to Trinity College by the following enactment of the Legislature of North Carolina:

*An Act to Amend the Charter of Normal College:**

SECTION 1. Be it enacted by the General Assembly of the State of North Carolina, and it is hereby enacted by the authority of the same, That the corporation established by an act passed in 1852, and known by the style and title of the "Trustees of Normal College," be and the same is hereby changed to Trinity College; and said corporation shall henceforth, by the name and style of Trinity College, hold and use all the authority, privileges, possessions and liabilities it had under the former title and name.

SEC. 2. Be it further enacted, That the estate, real and personal, received and controlled by the Trustees of Trinity College, shall be for the uses and purposes of a literary institution for the North Carolina Conference of the Methodist Episcopal Church, South.

SEC. 3. Be it further enacted, That all vacancies in the Board of Trustees shall be filled by said North Carolina Conference: *Provided, however,* That no person shall be elected a Trustee till he has first been recommended by a majority of the Trustees present at a regular meeting; and the Trustees shall have power to remove any member of their body who may remove beyond the boundaries of the State, or who may refuse or neglect to discharge the duties of a Trustee.

SEC. 4. Be it further enacted, That the Faculty and Trustees shall have the power of conferring such degrees and marks of honor as are conferred by colleges and universities generally; and that five Trustees shall be a quorum to transact business.

SEC. 5. Be it further enacted, That no person shall keep, maintain, or have at Trinity College, or within two miles thereof, any tippling-house establishment, or place for the sale of wine, cordials, spirituous or malt liquors; nor shall any person in the State, without a written permission from the Faculty, sell, or offer to sell, give or deliver to any student of Trinity College, or to any other person, any wine, cordials, spirituous or malt liquors for the purpose of being used or with a knowledge that the same will be used at said College, or within two miles thereof, by any student.

SEC. 6. Be it further enacted, That no person shall set up, keep or maintain at Trinity College, (or) within two miles thereof, any public billiard table, or other table, of any kind at which games of chance or skill, by whatever name called, may be played; and that no person, without written permission from the Faculty, shall within the same limits exhibit any theatrical, sleight-of-hand, natural or artificial curiosities, or any concert, serenade, or performance in music, singing or dancing.

SEC. 7. Be it further enacted, That sections second, fourth and fifth of the charter passed in 1852, are hereby repealed, and that all acts and laws coming within the meaning and purview of this present act are hereby repealed.

During the Civil War the College shared the common fate of Southern colleges. President Craven resigned in 1863, and Professor William T. Gannaway was elected his successor. In October, 1865, Dr. Craven was re-elected to the presidency; however, the work of the College, which had been suspended in April of that year, was not resumed till January, 1866. Dr. Craven remained president of the College till his death, November 7, 1882. Professor William Howell Pegram was then elected chairman of the Faculty. He served till the close of the academic year, June, 1883.

The Reverend Marquis L. Wood was elected president in 1883; he resigned in December, 1884, when Professor John F. Heitman was elected chairman of the Faculty. John Franklin Crowell was chosen president of the College in April, 1887.

* Laws of 1858-1859, chapter 85, page 81.

President Crowell conceived the idea of enlarging the scope of college work and of removing Trinity College to a city. The Board of Trustees on May 7, 1889, passed the following resolutions:

Resolved (1). That after mature and prayerful consideration, we believe it best for the interest of Methodism in North Carolina, and the cause of God, to move Trinity College to some prominent center within this State: *Provided,* There shall be tendered to this Board a proper guarantee of a suitable site, with buildings on it, of at least equal value, and as well suited for the uses of the College as those on the present site.

Resolved (2). That a committee of five be appointed to carry out the true intent of the above resolution, and report to the next annual meeting of the Board of Trustees.

At a meeting of the Trustees held in Greensboro, North Carolina, November 30, 1889, the following resolutions were adopted:

Resolved (1). That the Board of Trustees of Trinity College accept the offer of the citizens of Raleigh to erect a college building on the site designated, said building to be according to the plans and specifications mentioned in their offer.

Resolved (2). That we recommend the N. C. Annual Conference of the M. E. Church, South, to authorize the removal of Trinity College in accordance with the above and former resolutions passed by this Board.

Resolved (3). That the grounds and buildings now owned and used at Trinity College be held by the same Board of Trustees to be used as an academical department to prepare students for the college classes.

In accordance with these resolutions, through President Crowell, the Conference was asked at its session in Greensboro, December, 1889, to grant permission to remove the College to the City of Raleigh. The Conference took the following action:

Resolved, That the Board of Trustees of Trinity College be and is hereby authorized and directed to move Trinity College to the City of Raleigh, when the citizens of said city shall have erected on the site designated and known as the Boylan lot, the building proposed and agreed to be built by them *Provided,* That before said college is moved, as aforesaid, there shall be made, executed and delivered to said Trustees a good and sufficient deed in fee simple with proper covenants of warranty and seizin, conveying the lot and site designated to said Trustees and their successors in office, for the use and benefit of the North Carolina Conference, Methodist Episcopal Church, South, as it now exists, and for the use and the benefit of such Conferences, as may be hereafter created by the Methodist Episcopal Church, South, out of any territory within the State of North Carolina.

Some time after this action of the Conference, Washington Duke and other citizens of Durham, North Carolina, made a proposition to the Trustees to locate the College in Durham, and this proposition was accepted. On January 21, 1891, the Legislature of North Carolina issued the following charter:

An Act to Amend the Charter of Trinity College:

The General Assembly of North Carolina do enact:

SECTION 1. That the Trustees of Trinity College are authorized and empowered to remove the operations and exercises of said College, and to locate the buildings deemed necessary by them for the purpose of the College, at or near the town of Durham, North Carolina. They may, if they so elect, establish and maintain in connection with said College institutions of primary and intermediate education at the present site of the College in Randolph County, and at such other points as they may now or hereafter determine, for the purpose of preparing students for admission to a collegiate course. The management of such auxiliary and subordinate high schools and academies shall be vested in the said Board of Trustees, who are authorized to make by-laws and regulations for them, as well as for the College proper.

SEC. 2. That the Trustees of Trinity College are authorized to receive and hold by gift, devise or purchase, property, real and personal, to be held for the use of said College and its dependent schools or for the use of either or both (as may be designated in the conveyance or will), (to a value not exceeding in the aggregate sum three millions of dollars).

SEC. 3. That the Trustees shall be thirty-six in number, of whom twelve shall be elected by the North Carolina Conference of M. E. Church, South, twelve by the W. N. C. Conference of said church, and twelve by graduates of said College. The term of office of Trustees shall be six years, and they shall be so arranged that four Trustees shall be elected by each Conference and four by the graduates every two years. The Trustees shall regulate by by-laws the manner of election of the Trustees to be chosen by the graduates. Should there exist a vacancy by death, resignation, or otherwise, of any Trustee, the same shall be filled for the unexpired term by the Board of Trustees. The terms of the Trustees now in office shall expire January first, one thousand eight hundred and ninety-two. At the first election held under this amendment to the Charter, the body of grad-

uates and each of the Conferences shall respectively elect four Trustees for the term of two years; in like manner each of said constituencies shall elect four Trustees for the term of four years, and in like manner each shall elect four Trustees for the term of six years.

In September, 1892, the College opened its first session in the new plant located at Durham. In May, 1894, President Crowell resigned, and on August 1, 1894, the Reverend John C. Kilgo was elected his successor. In May, 1897, the Trustees authorized the admission of women as students to all departments of the College.

On account of the fact that the fundamental laws under which the College was managed were contained in an original charter and in several amendments, it was deemed best by the Board of Trustees, in June, 1902, to appoint a committee to make an application to the Legislature for a new charter, which should unify and harmonize the provisions of the existing legislation. On February 28, 1903, the Legislature of North Carolina granted the new charter which is identical with the charter as found on pages 16-17, except that the corporate name of the institution is changed to Duke University and the corporation is given perpetual existence, an amendment enacted by the General Assembly of North Carolina, January 19, 1911, having already stricken out the limitations set in former charters to the amount of property the College might hold.

Having been elected a bishop of the Methodist Episcopal Church, South, President Kilgo resigned in June, 1910. William Preston Few was elected to succeed him and was formally inaugurated November 9, 1910.

On December 29, 1924, the Board of Trustees of Trinity College met to consider the Indenture of Trust executed by James B. Duke, December 11, 1924. The Board voted unanimously to accept the provisions of the Indenture insofar as it affected Duke University, and authorized the necessary steps to be taken whereby, on December 30, 1924, a charter for the University was granted. The charter follows closely that of Trinity College and is printed on pages 16-17.

President Few died Octobebr 16, 1940. Dr. R. L. Flowers was elected President January 29, 1941.

Duke University is approved by the recognized accrediting agencies in the field of university education and is a member of various associations devoted to the interests of such education. Among those in which it holds membership are the Association of American Universities, the Southern Association of Colleges and Secondary Schools, the American Association of Colleges, the Southern University Conference, the American Association of Law Schools, the Association of American Medical Colleges, the American Association of Theological Schools, and others.

GOVERNMENT

I. THE INDENTURE OF TRUST BY WHICH THE UNIVERSITY WAS CREATED

Among the provisions of James B. Duke's indenture of trust was an educational institution to be known as Duke University, in respect to which the Indenture contains the following provisions, and these provisions apply also to gifts made by him the year before he died and to bequests that came to the University at his death or that have come since:

I. (In Article FOURTH) The Trustees hereunder are hereby authorized and directed to expend as soon as reasonably may be not exceeding Six Million Dollars of the corpus of this trust in establishing at a location to be selected by them within the State of North Carolina an intsitution of learning to be known as Duke University, for such purpose to acquire such lands and erect and equip thereon such buildings according to such plans as the Trustees may in their judgment deem necessary and adopt and approve for the purpose, to cause to be formed under the laws of such state as the Trustees may select for the purpose a corporation adequately empowered to own and operate such properties under the name of Duke University as an institution of learning according to the true intent hereof, and to convey to such corporation when formed the said lands, buildings and equipment upon such terms and conditions as that such corporation may use the same only for such purposes of such university and upon the same ceasing to be so used then the same shall forthwith revert and belong to the Trustees of this trust as and become a part of the corpus of this trust for all of the purposes thereof.

However, should the name of Trinity College, located at Durham, North Carolina, a body politic and incorporate, within three months from the date hereof (or such further time as the Trustees hereof may allow) be changed to Duke University, then, in lieu of the foregoing provisions of this division "FOURTH" of this Indenture, as a memorial to his father, Washington Duke, who spent his life in Durham and whose gifts, together with those of Benjamin N. Duke, the brother of the party of the first part, and of other members of the Duke family, have so largely contributed toward making possible Trinity College at that place, he directs that the Trustees shall expend of the corpus of this trust as soon as reasonably may be a sum not exceeding Six Million Dollars in expanding and extending said University, acquiring and improving such lands, and erecting, removing, remodeling and equipping such buildings, according to such plans, as the Trustees may adopt and approve for such purpose to the end that said Duke University may eventually include Trinity College as its undergraduate department for men, a School of Religious Training, a School for Training Teachers, a School of Chemistry, a Law School, a Co-ordinate College for Women, a School of Business Administration, a Graduate School of Arts and Sciences, a Medical School and an Engineering School, as and when funds are available.

II. (In Article FIFTH) Thirty-two per cent of said net amount not retained as aforesaid for addition to the corpus of this trust shall be paid to that Duke University for which expenditures of the corpus of the trust shall have been made by the Trustees under the "Fourth" division of this Indenture so long as its name shall be Duke University and it shall not be operated for private gain, to be utilized by its Board of Trustees in defraying its administration and operating expenses, increasing and improving its facilities and equipment, the erection and enlargement of buildings and the acquisition of

additional acreage for it, adding to its endowment or in such other manner for it as the Board of Trustees of said institution may from time to time deem to be of its best interests, provided that in case such institution shall incur any expense or liability beyond provision already in sight to meet same, or in the judgment of the Trustees under this Indenture be not operated in a manner calculated to achieve the results intended hereby the Trustees under this Indenture may withhold the whole or any part of such percentage from said institution so long as such character of expense or liabilities or operation shall continue, such amounts so withheld to be in whole or in part either accumulated and applied to the purposes of such University in any future year or years, or utilized for the other objects of this Indenture, or added to the corpus of this trust for the purpose of increasing the principal of the trust estate, as the Trustees may determine.

III. (In Article SEVENTH) I have selected Duke University as one of the principal objects of this trust because I recognize that education, when conducted along sane and practical, as opposed to dogmatic and theoretical lines, is next to religion, the greatest civilizing influence. I request that this institution secure for its officers, trustees, and faculty, men of such outstanding character, ability, and vision as will insure its attaining and maintaining a place of real leadership in the educational world, and that great care and discrimination be exercised in admitting as students only those whose previous record shows a character, determination, and application evincing a wholesome and real ambition for life. And I advise that the courses at this institution be arranged, first, with special reference to the training of preachers, teachers, lawyers and physicians, because these are most in the public eye, and by precept and example can do most to uplift mankind, and second, to instruction in chemistry, economics, and history, especially the lives of the great of earth, because I believe that such subjects will most help to develop our resources, increase our wisdom and promote human happiness.

IV. (In Article THIRD) As respects any year or years and any purpose or purposes for which this trust is created (except the payments hereinafter directed to be made to Duke University) the Trustees in their uncontrolled discretion may withhold the whole or any part of said incomes, revenues and profits which would otherwise be distributed under the "Fifth" division hereof, and either (1) accumulate the whole or any part of the amount so withheld for expenditures (which the Trustees are hereby authorized to make thereof) for the same purpose in any future year or years, or (2) add the whole or any part of the amounts so withheld to the corpus of the trust, or (3) pay, apply and distribute the whole or any part of said amounts to and for the benefit of any one or more of the other purposes of this trust, or (4) pay, apply and distribute the whole or any part of said amounts to or for the benefit of any such like charitable, religious or educational purpose within the State of North Carolina or the State of South Carolina, or any such like charitable hospital purpose which shall be selected therefor by the affirmative vote of three-fourths of the then Trustees at any meeting of the Trustees called for the purpose, complete authority and discretion in and for such selection and utilization being hereby given the Trustees in the premises.

2. THE CHARTER OF THE UNIVERSITY

SECTION 1. That A. P. Tyer, J. H. Southgate, B. N. Duke, G. A. Oglesby, V. Ballard, J. A. Long, J. F. Bruton, J. N. Cole, F. A. Bishop, J. G. Brown, C. W. Toms, J. W. Alspaugh, W. R. Odell, J. A. Gray, F. Stikeleather, Kope Elias, S. B. Turrentine, P. H. Hanes, T. F. Marr, G. W. Flowers, M. A. Smith, R. H. Parker, W. J. Montgomery, F. M. Simmons, O. W. Carr, R. A. Mayer, N. M. Jurney, Dred Peacock, B. B. Nicholson, W. G. Bradshaw, E. T. White, T. N. Ivey, J. B. Hurley, R. L. Durham, W. C. Wilson, and their associates and successors shall be, and continue as they have been, a body politic and corporate under the name and style of DUKE UNIVERSITY, and under such name and style shall have perpetual existence and are

hereby invested with all the property and rights of property which now belong to the said corporation, and said corporation shall henceforth and perpetually, by the name and style of DUKE UNIVERSITY, hold and use all the authority, privileges, and possessions it had or exercised under any former title and name, and be subject to all recognized legal liabilities and obligations now outstanding against said corporation.

SEC. 2. That such corporation is authorized to receive and hold by gift, devise, purchase or otherwise, property, real and personal, to be held for the use of said University and its dependent schools or for the use of either or both (as may be designated in the conveyance or will).

SEC. 3. That the Trustees shall be thirty-six in number, of whom twelve shall be elected by the North Carolina Conference of the M. E. Church, South; twelve by the W. N. C. Conference of the said church; and twelve by the graduates of said University; *Provided, however,* That no person shall be elected a Trustee till he has first been recommended by a majority of the Trustees present at a regular meeting; and the Trustees shall have power to remove any member of their body who may remove beyond the boundary of the State or who may refuse or neglect to discharge the duties of a Trustee. The term of office of Trustees shall be six years, and they shall be so arranged that four Trustees shall be elected by each Conference and four by the graduates every two years. The Trustees shall regulate by bylaws the manner of election of the Trustees to be chosen by the graduates. Should there exist a vacancy by death, resignation, or otherwise of any Trustee, the same shall be filled for the unexpired term by the Board of Trustees. That the present Trustees shall continue and remain in office during the term for which they have been heretofore respectively elected.

SEC. 4. That the said corporation shall be under the supervision, management and government of a president and such other persons as said Trustees may appoint; the said president, with the advice of other persons so appointed, shall from time to time make all needful rules and regulations for the internal government of said University and prescribe the preliminary examinations and the terms and conditions on which pupils shall be received and instructed.

SEC. 5. That said Trustees shall have power to make such rules, regulations, bylaws not inconsistent with the Constitution of the United States and of this State, as may be necessary for the good government of said University and management of the property and funds of the same.

SEC. 6. That the Trustees shall have power to fix the time of holding their annual and other meetings, to elect a president and professors for said University, to appoint an executive committee to consist of seven members, which committee shall control the internal regulations of said University and fix all salaries and emoluments, and to do all other things necessary for an institution of learning not inconsistent with the laws of this State and of the United States.

SEC. 7. That the Faculty and Trustees shall have the power of conferring such degrees and marks of honor as are conferred by colleges and universities generally; and that five Trustees shall be a quorum to transact business.

SEC 8. That all laws and parts of laws or of the charter heretofore granted which are in conflict with this act are hereby repealed.

SEC. 9. That this act shall be in force from and after its ratification and acceptance by the Board of Trustees.

3. THE BYLAWS OF THE UNIVERSITY

1. AIMS OF THE UNIVERSITY. The aims of Duke University are to assert a faith in the eternal union of knowledge and religion set forth in the teachings and character of Jesus Christ, the son of God; to advance learning in all lines of truth; to defend scholarship against all false notions and ideals; to develop a Christian love of freedom and truth; to promote a sincere spirit of tolerance; to discourage all partisan and sectarian strife; and to render the largest per-

manent service to the individual, the state, the nation, and the church. Unto these ends shall the affairs of this University always be administered.

2. THE UNIVERITY TRUSTEES. The Alumni Trustees, nominated by the Board as provided for in the charter, are elected by the Alumni Association. The officers of the Board are chariman, vice-chairman, and recording secretary. The chairman calls to order and presides at all meetings of the Board, calls extraordinary meetings when, in his judgment, such meetings may be necessary, and represents the Trustees at public meetings of the University. He is ex-officio member of the Executive Committee. In the absence of the chairman the vice-chairman calls to order and presides over meetings of the Board, but does not perform any of the other duties of the chairman unless ordered to do so by the Board of the Executive Committee. The recording secretary records the minutes of all the meetings, does the correspondence, and is the custodian of the records and other documents that may belong to the Board.

3. THE EXECUTIVE COMMITTEE. The Executive Committee consists of seven members, three of them from the University Trustees, including the chairman ex-officio, three from the Endowment Trustees, and the President of the University ex-officio. It performs the duties set out for it in the charter—namely, controls the internal regulations of the University and fixes all salaries and emoluments. The Committee is furthermore authorized to appoint officers and teachers of the University subject to the approval of the University Trustees. The Committee is elected by the University Trustees, three of them on nomination of the Endowment Trustees, and the Committee elects its own officers. It meets once a month and oftener when necessary. The Committee through its chairman makes annually a report to the University Trustees.

4. OFFICERS OF THE UNIVERSITY. The officers of the University are a president, three vice-presidents, a treasurer, a dean of the University, and such other deans as may be needed, a recording dean or registrar, and a secretary who is also secretary of the faculty. Whenever it may seem wise, more than one of these offices may be held by one man.

President. The President of the University calls, and presides at, all the meetings of the Faculties, sees that the laws and regulations of the Executive Committee and the Trustees affecting the administration and work of the University are carried out, appoints all committees of the Faculties and has direction of the discipline and work of the University. He has the authority to veto any action of the Faculties, when, in his judgment, such action is not in harmony with the aims and laws of the University, or when he may deem such action as unwise. However, in every instance he shall submit to the Faculty in writing his reasons for setting aside their action, and the secretary of the Faculty shall record his reasons in the record book of the Faculty. The President makes an annual report to the Board of the work, conditions, and needs of the University, and of other matters that may be of concern to it or to the cause of higher education. He nominates all members of the Faculties, and represents them at all public meetings of the University. He is an ex-officio member of the Executive Committee; and acts as the medium of communication between the University Trustees and the Endowment Trustees.

Vice-Presidents. The three Vice-Presidents of the University have supervision of the work of the University in the divisions of (a) business, (b) education, and (c) student life. In the absence of the President, Vice-Presidents in the order of official senority may perform such duties of the President as may demand immediate attention.

Treasurer. The Vice-President in the Business Division and Treasurer has the custody of all the property of the University, that is, he has the primary responsibility for all collections and disbursements, for all securities and financial records, and for the care of the entire physical plant. He is required to make monthly reports to the Executive Committee and annual reports to the Trustees concerning his accounts and the property in his charge.

It shall be the duty of the Treasurer to nominate to the Executive Committee an assistant treasurer and other assistants in sufficient number to do well the duties of his office. All officers entrusted with property belonging to the University are required to keep records of the same and these records are at all times subject to the inspection of the Treasurer. The Treasurer and his assistants shall be required to give bond, joint or several, in an amount not less than $50,000 for the faithful performance of their duties.

5. FACULTIES. The General Faculty of the University is composed of professors, associate professors, and assistant professors who have been elected to membership in the Faculty. Concerning questions that do not lie exclusively in the field of any one Faculty and questions of University educational policy this Faculty has the right to enact such regulations as it may deem necessary to carry on the instruction, advance the standard of work, and otherwise develop the scholarly aims of the University. The General Faculty recommends to the University Trustees such persons as it deems fit to receive academic degrees or other marks of academic distinction. This Faculty meets twice a year and at other times on the call of the President or Dean of the University, or on the written request of five members.

The professional schools have their own faculties, each with its dean and other appropriate officers elected by the Executive Committee with the approval of the University Trustees, and each is authorized to perform any educational functions that lie in its field.

The Faculty Council includes the Deans and Assistant Deans of Trinity College and the Woman's College, the Dean of the Graduate School, the Secretary of the General Faculty, the Chairman and Director of Undergraduate Studies in each department offering instruction in the undergraduate colleges of liberal arts and sciences, one additional member elected by each department that has five or more teachers giving instruction in arts and sciences, and such others as may be appointed to membership in the Council by the governing bodies of the University. The Council meets once a month and considers questions of curriculum in the field of arts and sciences and other educational details and policies that are outside the functions of any one faculty.

The Council on Undergraduate Teaching consists of the Deans and Assistant Deans of Trinity College, the Woman's College, the College of Engineering, some other officers and appointed members, and teachers of all ranks who are giving fifty per cent or more of their time to the instruction of undergraduates. Courses to which both Seniors and graduates are admitted are understood as intended primarily for graduate students. The business of this Council is to stimulate good teaching and to find ways and means to make college teaching as effective as possible. It has the right to take such actions as may be necessary to promote these ends.

The Council on the Instruction of Freshmen is composed of the Dean of Undergraduate Instruction, the Dean of Freshmen, and the Supervisor of Freshmen Instruction from each department offering courses for Freshmen. It considers policies and matters of detail as affecting Freshman instruction and also provision for the general welfare of Freshmen. The Freshmen Council makes recommendations to the Faculty Council for action in matters of general policy. The Freshman Council has the power to call upon members of the Faculty for reports or other information pertaining to the instruction of Freshmen at such dates as it may determine.

The Council on Education for Women consists of the Dean of Women and of one representative from each department offering courses which are largely taken by women students. It shall consider matters of interest and policy relating to the instruction and general welfare of the women students of the University, and make recommendations to the President, or the Faculty Council. The members of the Council on Education for Women are appointed by the President of the University.

The Council on Engineering Instruction consists of the Dean of the College of Engineering, the Secretary of the College, the Dean of the University, the Chairmen of the several departments in engineering, one representative to be appointed by the President of the University from each of the Departments of Mathematics, Physics, Chemistry, Economics, English. The Council deals with questions relating to instruction in engineering, the welfare of engineering students, and the cause of engineering in general. The Executive Committee consists of the Dean and the Secretary of the College of Engineering, and the Chairmen of the Departments of Civil, Electrical, and Mechanical Engineering.

The Council on Graduate Instruction consists of members of the Faculty above and including the ranks of associate professor who give at least half of their time to graduate work under the direction of the Graduate School, and others who may be appointed by the Governing Bodies of the University. One member is appointed from each of the professional schools which give courses for graduate credit, and in some cases more than one. The Council has to do with whatever pertains to instruction and requirements for degrees in the Graduate School of Arts and Sciences.

The Executive Committee of the Council on Graduate Instruction consists of the Dean and six members appointed by the President upon the recommendation of the Dean. Blanks are distributed once a year to each member of the Council with the request that six names be entered on the blank as his suggestions for members of the Committee. It is understood that the Dean is to take these suggestions into account in his recommendations to the President. Insofar as possible the Humanities, Biological and Physical Sciences, Social Sciences, and other fields are to be represented on the Executive Committee. No more than four of the six committee members are to be reappointed for any ensuing year.

6. ACADEMIC YEAR. The academic year begins on the morning of the Wednesday following September 15. The annual Commencement comes in the week including the first Sunday in June. The Christmas recess begins at 1:00 P.M. December 20 (or December 19 if December 20 falls on Sunday), and ends at 8:00 A.M., January 3 (or January 4 if January 3 falls on Sunday). The spring recess begins at 1:00 P.M. of the Saturday in March nearest to March 25, and ends at 8:00 A.M., of Monday nine days later. Thanksgiving Day is a holiday.

7. TENURE OF OFFICE. Teachers of all ranks are subject to removal by the Executive Committee, with the approval of the University Trustees, for misconduct or neglect of duty. Teachers may be elected for terms of one, two, three, or four years; or teachers with the rank of professor may be elected without time-limit. Administrative officers are usually elected without time-limit, but the Executive Committee, with the approval of the University Trustees, may remove any officer of the University whenever, in their opinion, he is not properly performing the duties of his office.

8. The bylaws may be amended at any regular meeting of the University Trustees by the affirmative vote of two thirds of the full membership of the Board, provided that the proposed amendment is submitted through the Secretary of the Board to the members at least twenty days before the meeting.

SABBATICAL LEAVE

Sabbatical leave of absence for members of the General Faculty is granted under regulations adopted by the Executive Committee of the Trustees on March 28, 1923, revised in 1928, partly in abeyance in the year 1933-34 and the succeeding three years, and restored in the year 1937-38. The conditions on which sabbatical leave of absence is granted are set forth below.

1. Every member of the General Faculty (composed of professors, associate professors, and assistant professors) is eligible for sabbatical leave after six years in the service of the University. Such leave may be taken for a full year at half salary or a half year at full salary.

2. In order to obtain a sabbatical leave written request for such leave must be filed with the President of the University by December 1 of the academic year preceding the one in which the leave is to take effect.

3. If in exceptional cases it should develop that the granting of leave to an applicant during the year for which application is made would raise very serious difficulties detrimental to the best interests of the applicant's department or school, or the interests of the institution as a whole; or because of questions concerning the applicant's period of service prior to the leave, the President shall appoint a committee which shall have power to decide the question of granting the sabbatical leave for the particular year under consideration. This committee shall consist of five members as follows: two members of the general faculty appointed yearly by the President, the Treasurer of the University, the Dean of the school or college of which the applicant is a member, the chairman of the applicant's department, or should no such chairman exist another member of the applicant's department.

4. If this committee should decide against the granting of a sabbatical leave for the year for which the applicant applied, the applicant would be eligible for sabbatical leave the following year or any year thereafter upon making application in due form as above.

5. After September 1, 1928, if a member of the faculty on becoming eligible for sabbatical leave does not for some special reason apply for such leave, he may count the additional years of service prior to his leave toward the six years of service necessary before he can apply for a subsequent leave. If in an exceptional case an applicant for personal reasons applies for a sabbatical leave to be effective in advance of his regular year and such leave is granted, he shall not be eligible for a subsequent leave until he has served six years plus the number of years by which this leave is advanced.

6. On recommendation of the committee after leave of absence has been granted it may be postponed for urgent reasons and under conditions to be determined by the committee.

7. All those cases which have occurred in the past or which may occur in the future in which leave of absence is granted under conditions where the absentee receives full pay for a half year or half pay or more for a full year's leave of absence shall be considered as regular sabbatical leave under these regulations.

8. These revised regulations became effective as of September 1, 1928, and sabbatical leaves under such regulations began with the academic year 1929-30. The regulations were partly in abeyance in 1933-34, 1934-35, 1935-36, and 1936-37. The restoration of the regulations begins with the academic year 1937-38. The four years, 1933-34, 1934-35, 1935-36, and 1936-37, may not count toward the six years of service necessary before application can be made for leave of absence. In all cases in which special arrangements have been made for the granting of sabbatical leave (as described in condition No. 7) during the period of partial abeyance of the plan, the next six years of service shall be counted as beginning with the academic year 1937-38. All other members of the General Faculty who apply for sabbatical leave may count the years of service they had to their credit at the beginning of the academic year 1933-34.

GOVERNING BODIES AND OFFICERS

EXECUTIVE COMMITTEE OF THE UNIVERSITY

(Consisting of three members from the University Trustees, three from the Endowment Trustees, and the President of the University.)

	Year of Election		
J. F. Bruton, Chairman	1918	Wilson,	N. C.
G. G. Allen	1923	New York,	N. Y.
M. E. Newsom	1917	Durham,	N. C.
W. N. Reynolds	1933	Winston-Salem,	N. C.
J. H. Separk	1929	Gastonia,	N. C.
W. R. Perkins	1937	New York,	N. Y.
R. L. Flowers	1923	Durham,	N. C.

UNIVERSITY TRUSTEES

Term Expires December 31, 1949

G. G. Allen	1923	New York,	N. Y.
J. H. Barnhardt	1918	Shelby,	N. C.
James A. Bell, Vice-Chairman	1920	Charlotte,	N. C.
R. G. Cherry	1934	Gastonia,	N. C.
R. L. Flowers	1927	Durham,	N. C.
J. P. Frizzelle	1937	Snow Hill,	N. C.
Thomas M. Grant	1933	Rocky Mount,	N. C.
J. R. Smith	1934	Mount Airy,	N. C.

FROM THE ALUMNI

B. F. Few	1941	New York,	N. Y.
C. F. Lambeth	1915	Thomasville,	N. C.
H. B. Porter	1941	Wilson,	N. C.
C. K. Proctor	1935	Oxford,	N. C.

Term Expires December 31, 1945

E. S. Bowling	1939	New York,	N. Y.
H. C. Doss	1943	Detroit,	Mich.
G. M. Ivey	1943	Charlotte,	N. C.
B. C. Nalle	1941	Charlotte,	N. C.
M. E. Newsom	1917	Durham,	N. C.
W. W. Peele	1921	Richmond,	Va.
W. R. Perkins	1924	New York,	N. Y.
B. S. Womble	1915	Winston-Salem,	N. C.

FROM THE ALUMNI

*H. R. Dwire, Ass't. Rec. Secretary	1931	Durham,	N. C.
N. E. Edgerton	1941	Raleigh,	N. C.
R. A. Mayer	1897	Charlotte,	N. C.
W. A. Stanbury	1933	Winston-Salem,	N. C.

* Died, July 17, 1944.

Term Expires December 31, 1947

J. F. BRUTON, Chairman	1900	Wilson,	N. C.
JAMES B. CRAVEN	1941	Charlotte,	N. C.
D. S. ELIAS	1929	Asheville,	N. C.
P. H. HANES	1912	Winston-Salem,	N. C.
J. L. HORNE, JR.	1934	Rocky Mount,	N. C.
B. E. JORDAN	1943	Saxapahaw,	N. C.
S. B. TURRENTINE	1893	Greensboro,	N. C.
EARLE W. WEBB	1933	New York,	N. Y.

FROM THE ALUMNI

S. S. ALDERMAN	1934	Washington,	D. C.
W. N. REYNOLDS	1927	Winston-Salem,	N. C.
J. H. SEPARK	1916	Gastonia,	N. C.
WILLIS SMITH	1929	Raleigh,	N. C.

ENDOWMENT TRUSTEES

G. G. ALLEN, Chairman	1924	New York,	N. Y.
W. R. PERKINS, Vice-Chairman	1924	New York,	N. Y.
N. A. COCKE, Vice-Chairman	1924	Charlotte,	N. C.
A. H. SANDS, JR., Secretary	1924	New York,	N. Y.
E. C. MARSHALL, Assistant Secretary	1924	Charlotte,	N. C.
W. C. PARKER, Treasurer	1924	New York,	N. Y.
W. B. BELL	1924	New York,	N. Y.
C. I. BURKHOLDER	1924	Charlotte,	N. C.
MRS. DORIS DUKE CROMWELL	1933	New York,	N. Y.
MRS. J. B. DUKE	1924	New York,	N. Y.
R. L. FLOWERS	1926	Durham,	N. C.
B. E. GEER	1924	Greenville,	S. C.
W. S. RANKIN	1925	Charlotte,	N. C.
W. N. REYNOLDS	1931	Winston-Salem,	N. C.
W. S. O'B. ROBINSON, JR.	1932	Charlotte,	N. C.

COMMITTEES OF THE UNIVERSITY TRUSTEES

Buildings and Grounds: J. R. SMITH, CHERRY, BARNHARDT.

Business Administration of the University: HANES, ELIAS, BOWLING, DOSS.

Colleges: ALDERMAN, HORNE, IVEY.

Divinity School: PEELE, GRANT, PORTER, EDGERTON.

School of Forestry: DWIRE,* NEWSOM, FEW.

Graduate School: WEBB, TURRENTINE, FLOWERS, CRAVEN.

Law School: WILLIS SMITH, WOMBLE, CHERRY, FRIZZELLE.

Library: STANBURY, HANES, LAMBETH.

Medical School and Hospital: MAYER, PROCTOR, NALLE.

Physical Education and Intercollegiate Athletics: SEPARK, J. R. SMITH, PROCTOR, JORDAN.

* Died, July 17, 1944

OFFICERS OF ADMINISTRATION

GENERAL ADMINISTRATION

FLOWERS, ROBERT LEE, A.M., LL.D.
President of the University — West Campus

WANNAMAKER, WILLIAM HANE, A.B., A.M., Litt.D.
Vice-President and Dean of the University — West Campus

*DWIRE, HENRY RUDOLPH, A.B., A.M., LL.D.
Vice-President and Director of Public Relations and Alumni Affairs — 403 West Chapel Hill Street

MARKHAM, CHARLES BLACKWELL, A.B., A.M.
Treasurer of the University — 204 Dillard Street

BROWER, ALFRED SMITH, A.B.
Administrative Assistant — 518 Morehead Avenue

JORDAN, CHARLES EDWARD, A.B.
Secretary of the University — 813 Vickers Avenue

BUSINESS ADMINISTRATION

MARKHAM, CHARLES BLACKWELL, A.B., A.M.
Treasurer of the University — 204 Dillard Street

JORDAN, CHARLES EDWARD, A.B.
Secretary of the University — 813 Vickers Avenue

HENRICKSEN, GERHARD CHESTER, A.B., A.M., C.P.A.
Assistant Treasurer — 216 Forest Wood Drive, Forest Hills

†WEATHERSPOON, EVERETT BROADUS, A.B.
Assistant Secretary — 125 Pinecrest Road

TYREE, WILLIAM ALLEN, A.B.
Director in the Business Division — 610 Buchanan Road

WHITFORD, WILLIAM EDWARD, A.B.
Director in the Business Division — 804 Third Street

THOMPSON, JAMES EDWARD — 504 East Forest Hills Boulevard
Manager, the Duke University Dining Halls

SAWYER, OTIS, A.B.
Purchasing Agent, Duke University — 2010 Club Boulevard

MOORE, JOHN MEREDITH, A.B.
Manager, the Duke University Stores — Prince Street

* Died, July 17, 1944.
† On active duty, U. S. Army.

*UPCHURCH, WALTER MCGOWAN, JR., A.B., LL.B.
Financial Adviser, Student Activities — Johnson Apartments

BOY, CARL A.
Superintendent of Maintenance, West Campus — 2214 Erwin Road

GIFT, JOHN C.
Superintendent of Maintenance, East Campus — 811 Fifth Street

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PUBLIC RELATIONS AND ALUMNI AFFAIRS

†DWIRE, HENRY RUDOLPH, A.B., A.M., LL.D. — 403 West Chapel Hill Street
Director of Public Relations and Alumni Affairs

DUKES, CHARLES AUBREY, A.B.
Assistant Director — 1309 Oakland Avenue

GARRARD, ANNE, A.B., A.M.
Assistant Director, Alumni Affairs — 1023 Gloria Avenue

JACKSON, DAVID KELLY, A.B., A.M.
Assistant Editor, Duke University Press — 626 Swift Avenue

*MANN, GLENN EDWARD, A.B.
Manager, Athletics Division, the News Service — 2227 Cranford Road

*UPCHURCH, WALTER MCGOWAN, JR., A.B., LL.B.
Director, Appointments Office — Johnson Apartments

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UNDERGRADUATE COLLEGES

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Dean of Trinity College — Myrtle Drive, West Campus

BALDWIN, ALICE MARY, A.B., A.M., Ph.D.
Dean of the Woman's College — East Campus

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MANCHESTER, ALAN KREBS, A.B., A.M., Ph.D.
Dean of Freshmen, Trinity College — Myrtle Drive, West Campus

SMITH, MRS. RUTH SLACK, A.B., A.M. — Faculty Apartments, East Campus
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* On active duty, U. S. Navy.
† Died, July 17, 1944.

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Secretary of the Committee on Admissions of the Woman's College

*CLEAVELAND, FREDERIC NEILL, A.B., A.M.
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KENDALL, HELEN MILDRED, A.B.
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INSTRUCTIONAL STAFF

This alphabetical list includes all members of the various faculties of the University. The date denotes the first year of service.

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Associate Professor of Botany — 1003 Lamond Avenue

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Associate Professor of Neuropsychiatry — 2122 Myrtle Drive

* On active duty, U. S. Army.
† Absent on leave, Government Service, 1943-1944.

ALTER, ROBERT LEONHARDT, (1939) M.D.
Instructor in Obstetrics and Gynecology — Duke Hospital

ALTVATER, F. VERNON, (1930) A.B., A.M.
Associate in Hospital Administration — Route 2, Hillsboro, N. C.

ALYEA, EDWIN PASCAL, (1930) S.B., M.D.
Clinical Professor of Urology — Hope Valley

*ANDERSON, LEWIS EDWARD, (1936) B.S., A.M., Ph.D.
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Associate Professor of Surgery in charge of Ophthalmology

ARENA, JAY MORRIS, (1933) B.S., M.D.
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Associate in Dentistry — Allenton Apartments

AVERILL, LOUISE, (1943) B.A., M.A.
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AYCOCK, THOMAS MALCOLM, (1937) B.S., M.S.
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BADENOCH, ERNEST L., (1943) B.S., M.A.
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BAKER, LENOX DIAL, (1937) M.D.
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BAYLIN, GEORGE JAY, (1939) A.B., M.D.
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* On active duty, U. S. Navy.
† Resigned, July 1, 1944.
‡ Resigned, June 30, 1944.

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BONE, ALLAN HADLEY, (1944) B.A., M.M.
Visiting Instructor in Aesthetics, Art, and Music — Duke University

BONNER, LYMAN GAYLORD, (1937) A.B., Ph.D.
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†COLE, ROBERT TAYLOR, (1935) A.B., A.M., Ph.D.
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‡ Absent on leave, Government Service.
§ Transferred, April 25, 1944.
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*CRAIG, ROBERT LAWRENCE, (1939) B.A., M.D.
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†CRISPELL, RAYMOND S., (1933) A.B., M.D.
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CRUM, MASON, (1930) A.B., Ph.D.
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DEJONG, HERMAN, (1943) A.B., M.D.
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† On active duty, U. S. Navy.
‡ Died, September 27, 1943.

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DILLINGHAM, MARJORIE CARTER, MRS., (1941) A.B.
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* Absent on leave, Government Service, 1943-1944.
† Resigned, May 31, 1944.
‡ On active duty, U. S. Navy.
§ Retired, June 30, 1944.
‖ On active duty, U. S. Army.

FEARING, JOHN MELLICHAMP, (1942) B.S., M.D.
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FORBUS, WILEY DAVIS, (1930) A.B., M.D.
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†FOX, HERBERT JUNIUS, (1940) M.D.
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GARBER, PAUL NEFF, (1924) A.B., A.M., Ph.D. — Myrtle Drive, West Campus
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GILBERT, ALLAN, (1920) B.A., A.M., Ph.D.
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* On active duty, U. S. Army.
† On active duty, U. S. Navy.
‡ Retired, June 30, 1944.
§ Resigned, February 29, 1944.
‖ Absent on leave, Government Service, until Feb. 1, 1945.

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Assistant Professor of Chemistry Dixon Road

HINTON, WILLIAM ARTHUR, (1942) B.S. in M.E., M.S. in M.E.
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Assistant Professor of Chemistry 115 Pinecrest Road

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† On active duty, U. S. Army.
‡ Died, October 29, 1943.
§ Absent on leave, Government Service, second semester, 1943-1944.

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Assistant Professor of Anatomy 2307 Prince Street

HOLTON, HOLLAND, (1912) A.B., J.D.
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HOOKE, ROBERT, (1944) A.B., A.M., Ph.D.
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HOOVER, CALVIN BRYCE, (1925) A.B., Ph.D., Litt.D.
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HORACK, HUGO CLAUDE, (1930) Ph.B., LL.B., LL.D.
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HUBBELL, JAY BROADUS, (1927) A.B., A.M., Ph.D.
Professor of English 121 Pinecrest Road

HULL, ROBERT, (1943) A.B., A.M.
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IRVING, WILLIAM HENRY, (1936) B.A., B.A. (Oxon.), M.A., Ph.D.
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Assistant Professor of Zoology 1507 West Pettigrew Street

JENSEN, HOWARD EIKENBERRY, (1931) A.B., A.M., B.D., Ph.D.
Professor of Sociology 143 Pinecrest Road

JOHNSON, MYCHYLE W., (1937) A.B., Ph.D.
Assistant Professor of Zoology 2108 Sprunt Street

JOHNSTON, CHRISTOPHER, (1930) A.B., M.D.
Assistant Professor of Medicine 1417 W. Pettigrew Street

JONES, HENRY HUNTER, (1943) A.B., C.E.
Instructor in Engineering Drawing 1505 Alabama Avenue

†JONES, THOMAS T., (1937) A.B., M.D.
Associate in Medicine 1919 Club Boulevard

JORDAN, ARCHIBALD CURRIE, (1925) A.B., A.M.
Assistant Professor of English Pinecrest Road, Corner U. S. Highway No. 751

JORDAN, BRADY RIMBEY, (1927) Litt.B., Ph.D.
Professor of Romance Languages 117 Pinecrest Road

‡JUDD, MARY, (1943) A.B., M.A.
Instructor in Physical Education 203 Faculty Apartments

KAISER, HELEN LOUISE, (1943) R.P.T.T.
Instructor in Physical Therapy, in charge of Division of Physical Therapy 208 Faculty Apartments

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† On active duty, U. S. Army.
‡ Resigned, May 31, 1944.

*KEECH, JAMES MAYNARD, (1931) A.B., A.M., Ph.D.
Instructor in Economics — 2803 Nation Avenue

†KEMP, EDWARD H., (1940) A.B., Ph.D.
Assistant Professor of Psychology — 1403 Oakland Avenue

KEMPNER, WALTER, (1934) M.D.
Assistant Professor of Medicine — 1505 Virginia Avenue

‡KNIGHT, WALTER DAVID, JR., (1943) A.B., A.M.
Instructor in Physics — Duke University

KOCH, SIGMUND, (1942) A.B., A.M., Ph.D.
Instructor in Psychology — Augusta Street

KORSTIAN, CLARENCE FERDINAND, (1930) B.S.F., M.F., M.A., Ph.D.
Professor of Silviculture and Dean of the School of Forestry
1718 Duke University Road

KRAMER, PAUL JACKSON, (1931) A.B., M.Sc., Ph.D.
Associate Professor of Botany — 2251 Cranford Road

KRAYBILL, EDWARD K., (1939) B.S. in E.E.
Instructor in Electrical Engineering — 900 Dacian Avenue

KRUMMEL, CHARLES ALBERT, (1922) Ph.B., Ph.M., Ph.D.
Professor of German — 2118 Englewood Avenue

KUHN, HAROLD HUNTER, (1940) A.B., B.S., M.D.
Instructor in Orthopaedics — Duke Hospital

LANDON, CHARLES EDWARD, (1926) A.B., A.M., Ph.D.
Assistant Professor of Economics — 1517 Edgevale Road

LANNING, JOHN TATE, (1927) A.B., A.M., Ph.D.
Professor of History — Hope Valley

LAPRADE, WILLIAM THOMAS, (1909) A.B., Ph.D.
Professor of History — 1108 Monmouth Avenue

LATTY, ELVIN REMUS, (1937) B.S., J.D., J.Sc.D.
Professor of Law — Hope Valley

§LEARY, LEWIS, (1941) B.S., A.M., Ph.D.
Assistant Professor of English — 1503 Alabama Avenue

LEIGHTON, CLARE, (1943) D.F.A.
Visiting Lecturer on Art — Hope Valley Road

LEMERT, BEN FRANKLIN, (1930) B.Sc. in Bus. Admin., M.A., Ph.D.
Assistant Professor of Economic Geography — 123 Pinecrest Road

LEONARD, HENRY SIGGINS, (1937) A.B., A.M., Ph.D.
Associate Professor of Philosophy — 107 Pinecrest Road

LESTER, RICHARD ALLEN, (1940) Ph.B., M.A., Ph.D.
Associate Professor of Economics — 2020 Wilson Street

LEWIS, MODENA, (1933) B.S., M.A.
Instructor in Physical Education and Dance — 305 Erwin Apartments

LEWIS, RALPH ELTON, (1941) B.S., M.S. in M.E.
Assistant Professor of Mechanical Engineering — 1308 Markham Avenue

* Resigned, March 1, 1944.
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‡ Resigned, June 30, 1944.
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*LINEBARGER, PAUL MYRON ANTHONY, (1937) A.B., M.A., Ph.D.
Assistant Professor of Political Science — Duke University

LITTLE, LILLIAN H., (1944) B.S., M.A.
Instructor in Physical Education — Duke University

LÖWENBACH, HANS, (1940) M.D. — 1017 Gloria Avenue
Assistant Professor of Neuropsychiatry and Physiology

LONDON, ARTHUR HILL, JR., (1932) B.S., M.D.
Associate in Pediatrics — 619 Morehead Avenue

LONDON, FRITZ, (1938) Ph.D., Docteur ès Sciences of the University of Paris
Professor of Theoretical Chemistry — 1508 Oakland Avenue

LOVELL, DURWARD LEE, (1937) M.D.
Instructor in Surgery — 1115 Chapel Hill Street

LOWNDES, CHARLES LUCIEN BAKER, (1934) A.B., LL.B., S.J.D.
Professor of Law — 2016 Club Boulevard

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Librarian — 921 Monmouth Avenue

LUNDEBERG, OLAV K., (1931) A.B., A.M., Ph.D.
Associate Professor of Romance Languages — 127 Pinecrest Road

LUNDHOLM, HELGE, (1930) Fil. Kand., Fil. Lic., Ph.D.
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LYMAN, RICHARD SHERMAN, (1940) B.A., M.D.
Professor of Neuropsychiatry — 812 Anderson Street

MCBRYDE, ANGUS, (1931) B.S., M.D.
Assistant Professor of Pediatrics — 1522 Hermitage Court

MCCAIN, PAUL PRESSLY, (1931) A.B., M.D., LL.D.
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MCCLOY, SHELBY THOMAS, (1927) A.B., M.A., B.A., B.Litt., Ph.D.
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MCCREA, FORREST DRAPER, (1930) B.S., M.S., Ph.D.
Associate Professor of Physiology and Pharmacology — 1023 Demerius Street

MCDERMOTT, MALCOLM, (1930) A.B., LL.B.
Professor of Law — East Campus

MCFEATERS, CHARLIE PAUL, (1944) B.S., Captain, U. S. Navy
Professor of Naval Science and Tactics — Myrtle Drive, West Campus

MCGAVOCK, WILLIAM GILLESPIE, (1944) B.S., A.M., Ph.D.
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Professor of Law — Hope Valley

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MONTGOMERY, CLIFFORD COREY, (1944) A.B., A.M.
Visiting Instructor in History, 1944 Duke University

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Associate Professor of Philosophy Duke University

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NEURATH, HANS, (1938) Ph.D.
Assistant Professor of Biochemistry — 2505 Club Boulevard

NICHOLSON, WILLIAM MCNEAL, (1935) A.B., M.D.
Assistant Professor of Medicine — 812 Anderson Street

NIELSEN, WALTER MCKINLEY, (1925) B.S. in E.E., Ph.D.
Professor of Physics — 139 Pinecrest Road

NOOJIN, RAY O., (1940) A.B., M.D.
Instructor in Dermatology and Syphilology — 132 Pinecrest Road

*NORDHEIM, LOTHAR WOLFGANG, (1937) Ph.D.
Professor of Physics — 2555 Cranford Road

NORFLEET, GRIZZELLE M., (1938) A.B., B.S., M.A.
Supervisor of the Spastic Clinic — 903 Sixth Street

ODOM, GUY LEARY, (1943) M.D.
Associate in Neurosurgery — Hope Valley Road

†OGLESBY, ROSCOE RALPH, (1943) A.B., M.A.
Instructor in Engineering Drawing — University Apartments

OOSTING, HENRY JOHN, (1932) A.B., M.S., Ph.D.
Assistant Professor of Botany — 2642 University Drive, Rockwood

ORGAIN, EDWARD STEWART, (1934) M.D.
Assistant Professor of Medicine — Hope Valley

ORMOND, JESSE MARVIN, (1923) A.B., B.D., D.D.
Professor of Practical Theology — 110 Pinecrest Road

OUTLER, ALBERT C., (1938) A.B., A.M., B.D., Ph.D.
Associate Professor of Historical Theology — 2122 Englewood Avenue

OWEN, JOHN FLETCHER, (1943) B.S., M.D.
Lecturer in Neuropsychiatry — Duke Hospital

PARK, HUBERT VERN, (1944) A.B., A.M., Ph.D.
Visiting Associate Professor of Mathematics — Duke University

‡PARKER, HAROLD TALBOT, (1939) A.B., Ph.D.
Instructor in History — Duke University

PARKER, HERMON MANLEY, (1944) A.B., M.A., Ph.D.
Visiting Instructor in Physics — Duke University

PATTERSON, KARL BACHMAN, (1920) A.B., A.M.
Assistant Professor of Mathematics — 1024 Monmouth Avenue

PATTINSON, HULME HOLMES, (1943) B.S.M.E., B.A.
Instructor in Mechanical Engineering — 1322 Arnette Avenue

PATTON, LEWIS, (1926) A.B., Ph.D.
Associate Professor of English — 614 Swift Avenue

PEARCE, CARNEY COOPER, JR., (1943) M.D.
Instructor in Radiology — 2631 Chapel Hill Road

PEARSE, ARTHUR SPERRY, (1926) B.S., A.M., Ph.D., LL.D.
Professor of Zoology — Chelsea Circle, Hope Valley

PEELE, TALMAGE LEE, (1939) A.B., M.D.
Assistant Professor of Anatomy — University Apartments

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† Resigned, July 1, 1944.
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PETRY, RAY C., (1937) A.B., A.M., Ph.D.
Associate Professor of Church History — 128 Pinecrest Road

PICKRELL, KENNETH LEROY, (1943) M.D.
Associate in Surgery — 3 Sylvan Road

PINKERTON, MARGARET ISABEL, (1939) B.S., R.N.
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Assistant Professor of History — Woodridge Drive, Rockwood

†QUYNN, WILLIAM ROGERS, (1930) B.A., M.A., Ph.D.
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Professor of Economics — 133 Pinecrest Road

RAYMOND, MARY LOIS, (1931) A.B., M.A.
Assistant Professor of Romance Languages — 1003 Lamond Avenue

REAMER, I. THOMAS, (1931) Ph.G.
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† On active duty, U. S. Army.
‡ Resigned, May 31, 1944.
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‖ On active duty, U. S. Navy.

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REED, FREDERICK JEROME, (1935) M.E., M.S.
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‡ROBERTS, JOHN H., (1931) A.B., Ph.D.
Associate Professor of Mathematics Legion Avenue, Tuscaloosa Forest

†ROBERTS, LOUIS CARROLL, (1933) B.S., M.D.
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ROGERS, ROBERT S., (1937) A.B., A.M., Ph.D., F.A.A.R.
Professor of Latin 148 Pinecrest Road

ROPP, THEODORE, (1938) A.B., A.M., Ph.D.
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ROSE, JESSE LEE, (1936) A.B., M.A., Ph.D.
Instructor in Latin and Greek 603 Watts Street

ROSENAU, MILTON JOSEPH, (1936) A.M., M.D.
Lecturer in Preventive Medicine and Public Health Chapel Hill, N. C.

†ROSS, NORMAN F., (1937) D.D.S.
Instructor in Dentistry Chelsea Circle, Hope Valley

‡ROSS, ROBERT ALEXANDER, (1930) B.S., M.D.
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ROWE, GILBERT THEODORE, (1928) A.B., S.T.D., D.D., Litt.D.
Professor of Christian Doctrine 150 Pinecrest Road

RUCKER, MARVIN PIERCE, (1941) A.M., M.D., LL.D.
Lecturer in Obstetrics and Gynecology Richmond, Va.

RUFFIN, JULIAN MEADE, (1930) A.B., M.A., M.D.
Associate Professor of Medicine 816 Anderson Street

RUSSELL, ELBERT, (1926) A.B., A.M., Ph.D., Litt.D.
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† On active duty, U. S. Army.
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*SANDERS, PAUL HAMPTON, (1936) A.B., LL.B.
Associate Professor of Law — 2711 Stuart Drive

SAWYER, CHARLES HENRY, (1944) A.B., Ph.D.
Associate in Anatomy — Duke Hospital

SAYLOR, JOHN HENRY, (1928) A.B., A.M., Ph.D.
Associate Professor of Chemistry — 707 Club Boulevard

SCATES, DOUGLAS EDGAR, (1939) A.B., Ph.D.
Associate Professor of Education — 2247 Cranford Road

SCHIEBEL, HERMAN MAX, (1939) A.B., M.D.
Instructor in Surgery — 1410 Pennsylvania Avenue

SCHUMACHER, FRANCIS X., (1937) B.S.
Professor of Forestry — 6 Sylvan Road

SEELEY, WALTER JAMES, (1925) E.E., M.S.
Professor of Electrical Engineering — 1005 Urban Avenue

SHARP, D. GORDON, (1939) B.S., M.A., Ph.D.
Research Associate in Experimental Surgery — 202 Francis Street

SHEARS, LAMBERT ARMOUR, (1927) A.B., A.M., Ph.D.
Instructor in German — 917 Green Street

†SHEPHERD, HAROLD, (1939) A.B., J.D.
Professor of Law — Cole Mill Road

SHIELDS, JOHN HERMAN, (1926) A.B., A.M.
Assistant Professor of Accounting — 1315 Vickers Avenue

‡SHIPMAN, GEORGE A., (1938) A.B., Ph.D.
Associate Professor of Political Science — Duke University

SIMPSON, WILLIAM HAYS, (1930) A.B., A.M., Ph.D.
Assistant Professor of Political Science — 1408 Dollar Avenue

SMITH, DAVID TILLERSON, (1930) A.B., M.D. — Hope Valley
Professor of Bacteriology and Associate Professor of Medicine

§SMITH, FREDRIKA PATCHETT, (1943) B.S., M.A.
Instructor in Physical Education — 205 Faculty Apartments

SMITH, HILRIE SHELTON, (1931) A.B., Ph.D., D.D., Litt.D.
Professor of Christian Ethics and Religious Education — 1523 Hermitage Court

†SMITH, O. NORRIS, (1937) B.A., M.D.
Associate in Medicine — Greensboro, N. C.

SMITH, PRESTON WILLIAM, (1932)
Technical Instructor in Clinical Microscopy — Bickett Apartments

SMITH, ROBERT SIDNEY, (1932) A.B., A.M., Ph.D.
Assistant Professor of Economics — 2236 Cranford Road

SMITH, RUTH SLACK, MRS., (1927) A.B., A.M.
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SMITH, SUSAN GOWER, MRS., (1930) A.B., M.A.
Associate in Medicine — Hope Valley

* Absent on leave, Government Service.
† On active duty, U. S. Army.
‡ Absent on leave, Government Service, 1943-1944 and 1944-1945.
§ Resigned, May 31, 1944.

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Instructor in Anesthesia 2913 Horton Road

SNOW, WILLIAM BREWSTER, (1942) B.S., M.S.
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SPEAS, WILLIAM EUGENE, (1944) A.B., Ph.D.
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SPENCE, BESSIE WHITTED, MRS., (1929) A.B., A.M., B.D.
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SPENCE, HERSEY EVERETT, (1918) A.B., A.M., B.D., D.D., Litt.D.
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SPENGLER, JOSEPH JOHN, (1934) A.B., M.A., Ph.D.
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†STEVENS, JOSEPH BLACKBURN, (1940) B.S., M.D.
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†STILL, BAYRD, (1938) A.B., A.M., Ph.D.
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† On leave, April 1 to October 1, 1944.
‡ Resigned, June 1, 1944.
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† Resigned, May 18, 1944.
‡ Resigned, May 8, 1944.
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UNIVERSITY CHAPEL

HICKMAN, FRANKLIN SIMPSON, A.B., A.M., S.T.B., Ph.D.
Dean of the Chapel — 823 Buchanan Road

BARNES, JAMES FOSTER, A.B., A.M.
Director of Choral Music — 2401 Cranford Road

BREES, ANTON
University Carillonneur — Duke University

BROADHEAD, EDWARD HALL, A.B., A.M., M.M.
University Organist — 1015 Dacian Avenue

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*GREEN, CHARLES SYLVESTER, A.B., A.M., B.D., D.D., Litt.D.
Adviser in Religious Activities — 2216 Club Boulevard

HIGHSMITH, AGNES, A.B., A.M.
Assistant in Religious Activities, Woman's College — 113 Faculty Apartments

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PHYSICAL EDUCATION AND STUDENT HEALTH

†WADE, WALLACE, A.B.
Director of Physical Education, Trinity College — West Campus

CAMERON, EDMUND MCCULLOUGH, A.B.
Acting Director of Physical Education, Trinity College — Hope Valley

GROUT, JULIA REBECCA, A.B., M.S.
Assistant Professor of Physical Education, Woman's College — 205 Jones Street

SPEED, JOSEPH ANDERSON, M.D.
Director of Student Health — 913 Dacian Avenue

PAGE, WRAY RAMSEY, MRS., R.N.
Resident Nurse — East Campus Infirmary

VESTAL, MOZELLE, R.N.
Resident Nurse — East Campus Infirmary

* For academic year, 1943-1944.
† On active duty, U. S. Army.

MUSICAL ACTIVITIES

BARNES, JAMES FOSTER, A.B., A.M.
Director of Men's Glee Club — 2401 Cranford Road

BARNES, MRS. JAMES FOSTER
Director of the Woman's College Musical Clubs — 2401 Cranford Road

*FEARING, ROBERT BEVERIDGE
Director of the College Orchestras and Band — 410 Watts Street

HULL, ROBERT — 119 West Lynch Street
Acting Director of the College Orchestras and Band

RESIDENCE AND SOCIAL DIVISION

WILSON, MARY GRACE, A.B.
Dean of Residence, Woman's College; Counselor, Brown House — Brown House

SCHRADER, MRS. ARLINE DITLEVSON, A.B., A.M.
Assistant to Dean of Residence; Counselor, Aycock House — Aycock House

PEMBERTON, MRS. MARY NORCOTT
Hostess, West Campus — West Campus Union

BARNES, EVELYN, B.S.
Counselor, Alspaugh House — Alspaugh House

CHAFFIN, NORA CAMPBELL, A.B., A.M., Ph.D.
Counselor, Bassett House — Bassett House

HULL, ALMA, A.B.
Counselor, Pegram House — Pegram House

TAYLOR, MRS. HARRIET
Counselor, Giles House — Giles House

WELLBORN, MARY MOSS, A.B.
Counselor, Jarvis House — Jarvis House

POWELL, VIRGINIA, B.S.
Dietitian, the Union, West Campus — 214 Swift Avenue

OLIVER, MRS. HELEN
Dietitian, the Union, East Campus — Corner Fairview and Wells Streets

NORWOOD, MRS. G. D.
Dietitian, Southgate Hall — 204 Watts Street

BORING, MRS. HAL
Supervisor of Dormitories, West Campus — 115 Watts Street

HOOKER, MRS. MARY R. — Powe Apartments, Buchanan Road
Supervisor of Dormitories, East Campus

LEA, MRS. BEULAH C.
Supervisor of Dormitories, West Campus — 1920 Chapel Hill Road

LONG, MRS. R. T.
Supervisor of Dormitories, West Campus — 705 Shepherd Street

* On active duty, U. S. Army.

WEGENER, MRS. MARY E. — Powe Apartments, Buchanan Road
Supervisor of Dormitories, East Campus

ALDRIDGE, FRED SOULE, A.B., A.M. — East Campus
Chaplain of Duke Hospital and Director of the Golden Cross

FELLOWS AND GRADUATE ASSISTANTS

UNIVERSITY FELLOWS

Name	*Department*	*Home Address*
CARROLL, HOWARD A.B., University of Richmond; B.D., Duke University	Religion	Easton, Md.
EVANS, ALONA ELIZABETH A.B., Duke University	Political Science	Durham, N. C.
KREPS, CLIFTON HOLLAND, JR. A.B., The College of William and Mary; A.M., University of North Carolina	Economics	Norfolk, Va.
MORRIS, CLARA JUANITA A.B., Berea College	Economics	Benham, Ky.
RAMSAY, CHARLES MCKAY A.B., Berea College; B.D., Union Theological Seminary	Religion	Lynnville, Tenn.
SMITH, WILLIAM JORDAN JOSEPH A.B., University of Texas	Economics	Dallas, Tex.
WIGGINS, ELIZABETH LEWIS A.B., Winthrop College; A.M., Duke University	English	Holly Hill, S. C.
YOUNG, FRANKLIN WOODROW A.B., Dartmouth College; B.D., Crozer Theological Seminary	Religion	Chester, Pa.

GRADUATE RESEARCH ASSISTANTS

BLOOM, MELVIN B.S., Furman University	Chemistry	Greenville, S. C.
DEAL, CARL HOSEA, JR. B.S., Duke University	Chemistry	Salisbury, N. C.
GILBERT, ALFRED RACHELS B.S., University of Richmond; A.M., Duke University	Chemistry	Richmond, Va.
HOLUB, FREDERICK FRANK B.S., Western Reserve University	Chemistry	Cleveland, Ohio
KITTILA, RICHARD S. B.Chem., University of Minnesota	Chemistry	Ely, Minn.
TARRANT, PAUL B.S., Howard College; M.S., Purdue University	Chemistry	Birmingham, Ala.
TOMPSON, READE YATES B.S., Brown University	Chemistry	Attleboro, Mass.
WEISS, MARTIN J. B.A., New York University	Chemistry	New York, N. Y.

GRADUATE ASSISTANTS

ADAMS, JOE TAYLOR B.S., Southern Methodist University	Chemistry	Dallas, Tex.

Name	*Department*	*Home Address*
*BASS, ARNOLD MARVIN B.S., College of the City of New York; A.M., Duke University	Physics	New York, N. Y.
BEVAN, WILLIAM, JR. A.B., Franklin and Marshall College; A.M., Duke Universtiy	Psychology	Plains, Pa.
†BRAVERMAN, HOWARD A.B., Brooklyn College.	History	Brooklyn, N. Y.
BRYAN, THOMAS CONN A.B., Duke University; A.M., University of North Carolina	History	Skyland, N. C.
BUCHANAN, EDITH A.B., Meredith College	English	Cullowhee, N. C.
COLLINS, HERBERT A.B., Brooklyn College	History	Brooklyn, N. Y.
FIELD, FRANK HENRY B.S., Duke University	Chemistry	Cliffside Park, N. J.
‡FREISER, HENRY B.S., College of the City of New York; A.M., Duke University	Chemistry	Durham, N. C.
FRIES, JEAN NEVIN A.B., Wilson College	English	Chambersburg, Pa.
HEPTZ, HILDA A.B., Skidmore College	Sociology	Forest Hills, L. I., N. Y.
KAO, KATHERINE CHUN CH'UN A.B., A.M., Yenching University	Psychology	Peiping, China
§KENNEDY, PHILIP EDWARD A.B., Fairmont State Teachers College; A.M., West Virginia University	English	Fairmont, W. Va.
KINGSTON, MARION JOSEPHINE A.B., Mount Holyoke College	English	Melrose, Mass.
KINSMAN, MARGARET ELEANOR A.B., MacMurray College	History	Peoria, Ill.
‖KNIGHT, WALTER DAVID, JR. A.B., Middlebury College; A.M., Duke University	Physics	Newton Centre, Mass.
KNOX, NORMAN DAVIS A.B., Swarthmore College	English	McKeesport, Pa.
KRATHWOHL, BETTY AUGENSTINE B.S., Alfred University	Zoology	Silver Creek, N. Y.
KRUMMEL, MARY ELEANOR A.B., Duke University; B.S., Institute of Musical Art	Romance Languages	Durham, N. C.
LAIR, EUGENIE DILLE A.B., Randolph-Macon Woman's College	Botany	Cynthiana, Ky.
LEVINE, ROBERT A.B., A.M., Dartmouth College	Chemistry	East Boston, Mass
LUBORSKY, LESTER BERNARD A.B., Temple University; A.M., Duke University	Psychology	Philadelphia, Pa.

* Resigned, November 26, 1943.
† Appointed, March 1, 1944.
‡ Resigned, February 29, 1944.
§ Resigned, November 1, 1943.
‖ Resigned, November 2, 1943.

Name	*Department*	*Home Address*
*LYONS, RICHARD EDWIN A.B., University of Buffalo	Physics	Buffalo, N. Y.
MCANDREW, FLORENCE HELTON A.B., Mary Baldwin College; A.M., Northwestern University	Psychology	Chicago, Ill.
MANES, MILTON B.S., College of the City of New York	Chemistry	New York, N. Y.
†MOORE, EDWARD JAMES, JR. A.B., University of Buffalo	Physics	Getzville, N. Y.
PARKS, ELIZABETH MIRIAM A.B., Grinnell College	English	Denver, Colo.
POHL, MARIAN EVELYN B.S., Duke University	Zoology	Trenton, N. J.
RAPOPORT, LORENCE A.B., Harvard College	Chemistry	Hartford, Conn.
RASKIN, VILMA LEAH A.B., Brooklyn College	English	Brooklyn, N. Y.
ROEBUCK, JULIAN BAKER A.B., Atlantic Christian College	Sociology	Wilson, N. C.
ROSENBAUM, HASKELL MENACHIM B.S., College of the City of New York	Chemistry	Sunnyside, N. Y.
SCHAEDLER, FRANCES ANN CRAGHEAD A.B., Randolph-Macon Woman's College; A.M., Duke University	Latin	Lynchburg, Va.
SCHERAGA, HAROLD ABRAHAM B.S., College of the City of New York; A.M., Duke University	Chemistry	Durham, N. C.
SHAPIRO, CONSTANCE A.B., Hunter College	English	New York, N. Y.
SHIVERS, JOSEPH CLOIS, JR. B.S., A.M., Duke University	Chemistry	Riverton, N. J.
‡TAYLOR, HAROLD NORMAN A.B., A.M., State University of Iowa	History	Jasonville, Ind.
THEVAOS, DENO GEORGE A.B., Emory University	Education	Augusta, Ga.
TOMLINSON, MURIEL DOROTHY A.B., Bates College	Romance Languages	Manchester, Conn.
§TOMPSON, READE YATES B.S., Brown University	Chemistry	Attleboro, Mass.
WALKER, HOWARD GEORGE, JR. B.S., Duke University	Chemistry	Westfield, N. J.
WEITH, ARCHIE JAMES, JR. A.B., A.M., Duke University	Chemistry	Caldwell, N. J.
WIGGINS, PAULINE EVELYN A.B., University of Chattanooga	English	Birchwood, Tenn.

* Resigned, March 3, 1944.
† Resigned, January 31, 1944.
‡ Resigned, March 8, 1944.
§ Resigned, February 29, 1944.

Name	*Department*	*Home Address*
WISSOW, LENNARD JAY B.S., Pennsylvania State College; A.M., Duke University	Chemistry	Philadelphia, Pa.
WOOD, VIRGINIA LORAINE A.B., Roanoke College	Political Science	Roanoke, Va.
YOST, ROBERT STANLEY B.S., Pennsylvania State College	Chemistry	Pottsville, Pa.

GRADUATE SCHOLARS

*CANDLER, FRANCES GODFREY A.B., Randolph-Macon Woman's College	History	Madison, Ga.
†COOPER, JOEL AUBREY A.B., Hendrix College; B.D., Duke University	Religion	Paragould, Ark.
KEPPEL, DOROTHY JANE A.B., Heidelberg College	Sociology	Berea, Ohio
‡KING, SARA EDNA A.B., Geneva College	Religion	Beaver Falls, Pa.
O'BRIEN, JOSEPH WILLIAM A.B., Georgetown College; B.D., Colgate-Rochester Divinity School	Religion	Kingsville, Ohio
RUDISILL, DORUS PAUL A.B., Lenoir Rhyne College; A.M., University of South Carolina; B.D., Lutheran Theological Southern Seminary; S.T.M., Hartford Theological Seminary	Religion	Durham, N. C.
SCHAFER, THOMAS ANTON A.B., Maryville College; B.D., Louisville Presbyterian Theological Seminary	Religion	Liverpool, Ohio
STONE, ANN A.B., Millsaps College	Romance Languages	Jackson, Miss.
TRUSCOTT, ETHEL IRENE A.B., Coker College	English	Lomas de Zamora, Argentina
WALL, MILDRED EUGENIA A.B., Birmingham-Southern College	History	Birmingham, Ala.

* Resigned, March 1, 1944.
† Resigned, October 31, 1943.
‡ Second semester only.

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UNDERGRADUATE COLLEGES

Trinity College
The Woman's College
The College of Engineering

1943-1944
ANNOUNCEMENTS FOR 1944-1945

THE COLLEGES

GENERAL STATEMENT

Duke University offers in Trinity College, the Woman's College, and the College of Engineering three academic degrees for undergraduate work: Bachelor of Arts, Bachelor of Science, and Bachelor of Science in Civil, Electrical, or Mechanical Engineering.

TRINITY COLLEGE

Trinity College is the undergraduate college of arts and sciences for the men of Duke University and is situated on the West Campus along with the Graduate School of Arts and Sciences, the School of Law, the School of Medicine, the School of Nursing, the School of Forestry, and the Divinity School.

THE WOMAN'S COLLEGE

The Woman's College of Duke University is a college of arts and sciences within the University which provides for the instruction of undergraduate women as Trinity College provides for the instruction of undergraduate men.

THE COLLEGE OF ENGINEERING

Duke University, through the College of Engineering, offers standard four-year courses in civil, electrical, and mechanical engineering, with an aeronautics option for mechanical engineers.

THE LIBRARIES

The library resources of the University total 681,032 volumes, 839,567 manuscript pieces, and 2,722 books on microfilm. Seventy-seven foreign and domestic newspapers and 2,876 periodicals are received currently.

The University Library, in which the bulk of the collection is housed, is centrally located on the West Campus. The main Reference and Reading Room on the second floor contains about 5,000 volumes of important reference works and the books on reserve for Senior-Graduate courses. The Undergraduate Reading Room on the first floor contains a specially selected collection of approximately 2,000 books for general undergraduate reading and reference, together with the books on reserve for undergraduate courses. The Documents Room on the second floor gives students access to the official publications of the federal and state governments. Seniors, honor students, and others undertaking special studies may be admitted to the stacks to facilitate their work. The Chemistry Library of 10,832 volumes, the Physics-Mathematics Library of 10,197

volumes, the Biology-Forestry Library of 29,623 volumes, the College of Engineering Library of 7,889 volumes, and the Divinity School Library of 35,438 volumes are housed in the buildings in which these subjects are taught to make them convenient especially to the Faculty and students in these fields. The Hospital Library of 40,284 volumes and the Law Library of 74,098 volumes are housed in the Hospital and Law buildings respectively.

The Woman's College Library, which is one of the dominant units of the Georgian architecture of the East Campus, contains approximately 58,756 volumes. Among these are the books most constantly needed in the undergraduate work of women students. An attractive feature of the Library is the Booklovers' Room, comfortably furnished, where on open shelves students may find interesting books in various fields. In honor of the late James A. Thomas the Thomas Memorial Room was opened in December 1942. The decorations and furnishings in this room were provided by his Chinese and American friends. It affords a quiet, comfortable place for studying or reading.

Undergraduate students also have free access to the library collections of the Medical and Law Schools.

NAVAL RESERVE OFFICERS' TRAINING CORPS

The primary object of the Naval Reserve Officers' Training Corps is to provide systematic instruction and training in essential naval subjects for a group of selected students so that they may be qualified and available for duties as deck officers in the United States Navy. The work supplements other courses taken in the University.

Admission

Enrollment in the Naval Reserve Officers' Training Corps is entirely voluntary. Selection will be made from those students of the Freshman Class who are enrolled in the V-12 U. S. Navy College Program, after the completion of two semesters of college work under that program. Selection will be based on the academic work and the personality of the candidate.

Outline of Course

The Department of Naval Science and Tactics is an integral part of the University, and the courses in Naval Science and Tactics are on the same level and receive the same form of credit toward graduation as other courses in the University.

The course in Naval Science and Tactics is a five-semester course, beginning at the completion of two semesters of Freshman work. Satisfactory completion of each semester's work is necessary for continuance in the Unit.

The study of Navigation and other subjects included as a part of the course requires a basic knowledge of mathematics, including algebra, plane and solid geometry, and plane trigonometry. The two semesters of Freshman work will cover the required mathematics.

Uniforms, Books, and Equipment

Students in the course are furnished complete uniforms by the Navy Department. Students, however, provide themselves such items as collars, white shirts, black socks, and black shoes.

All books and equipment that the student needs in the course are loaned to him without cost. A deposit of $10.00 is required of each student to cover lost or damaged equipment. This deposit, or as much of it as remains, will be returned when the student severs his relation with the Unit.

Draft Status

All students enrolled will be enlisted in the U. S. Naval Reserve, will be on active duty, will receive regular Navy pay of grade, and will be furnished housing, board, instruction, and medical attention at government expense. As members of the Naval Reserve they are exempt from the Selective Service and Training Act, and their stay in college is dependent upon satisfactory academic training and good behavior; otherwise they will be sent to sea as apprentice seamen.

ADMISSION TO TRINITY COLLEGE AND THE WOMAN'S COLLEGE

Applicants may qualify for admission to Trinity College or the Woman's College as members of the Freshman Class or as students with advanced standing. Since the enrollment in the two colleges is limited, the Committee on Admissions will select the students who, in its opinion, are best qualified to benefit from the educational advantages which the colleges offer.

APPLICATION FOR ADMISSION

Application for admission to Trinity College should be made to the Secretary of Duke University, Duke Station, Durham, North Carolina, for transmittal to the Council on Admissions. Application for admission to the Woman's College should be made to the Committee on Admissions, College Station, Durham, North Carolina. Forms of application will be sent on request.

GENERAL REQUIREMENTS

Admission to Trinity College and to the Woman's College is dependent upon the ability, attainments, and character of the applicant. Each applicant must see that the Committee on Admissions receives a complete record of his work in secondary school or college, the required medical certificate, and satisfactory evidence of his good character and ability.

SPECIFIC REQUIREMENTS

An applicant for admission to the Freshman Class must present at least fifteen acceptable units of secondary school credit. A unit of credit is allowed for a course of study pursued throughout an academic year at an accredited secondary school, if the course has demanded five recitations a week and the prescribed amount of work has been completed satisfactorily.

1. Twelve units must be in English, foreign language, history and social studies, mathematics, and natural science; and must include:
   (a) English—3 units.
   (b) Algebra—1 unit.
   (c) Plane geometry—1 unit.
2. Three units may be in the subjects listed above or from those in the following table. The units indicate the maximum amount of credit acceptable in each subject:

SUBJECT	UNITS	SUBJECT	UNITS
Agriculture	2	Mechanical Drawing	2
Art	1	Music	1
Commercial Subjects	3	Physical Geography	1
Economics	1	Sociology	1
Household Economics	2	Woodworking, Machine Work	2

Other units offered in subjects not included in this list will be considered for acceptance on the basis of full statements transmitted with the applicant's record from the school recommending him.

ADMISSION BY CERTIFICATE

A graduate of an accredited school, who submits fifteen acceptable units of secondary school subjects, is recommended by his principal, and otherwise meets the requirements of the Admissions Committee, may be admitted without examination. This certificate must be on blanks furnished by the College and signed by the principal of the school in which the applicant completed his course.

ADMISSION BY EXAMINATION

An applicant who presents fifteen acceptable units for admission from a nonaccredited school is required to validate these units by entrance examinations and such other tests as the College may prescribe.

ADMISSION WITH ADVANCED STANDING

A student of good character who has completed satisfactorily at least one full year of college work in an approved college may be admitted with advanced standing. He must have fulfilled the equivalent of the requirements for admission to the Freshman Class, must present official certificates of all work done in other institutions, and have honorable dismissal from each institution previously attended. Credit for work completed will be determined in relation to the curriculum at Trinity College or the Woman's College.

A student enrolling for the Bachelor's degree who transfers from a junior college or from a four-year college not affiliated with the Southern Association, or a similar regional association, is under all circumstances required to continue for at least one semester in Trinity College or in the Woman's College the foreign language he presents for minimum graduation requirements.

A student who has transferred from a junior college or from a four-year college not affiliated with the Southern Association, or a similar regional association, must present laboratory notebooks in all science courses that are offered for advanced credit.

A student admitted with advanced standing will be given an average grade of "C" on the semester hours with which he is credited, provided his grades warrant it. In order to make his provisional classification final, he must pass during his first year of residence not less than the equivalent of four year-courses, with an average grade of "C" or higher.

The maximum amount of credit acceptable from a junior college is sixty semester hours.

No credit is given for work completed by correspondence, and not more than six semester hours of credit are allowed for work done by extension. Any extension work accepted must be specifically approved by the Dean of the College.

ADMISSION FOR SPECIAL WORK

Upon the approval of the Dean, a student of mature age may be admitted for special work in such courses of instruction as he is qualified to take, but not as a candidate for a degree in a regular course unless he meets all requirements for admission.

READMISSION OF FORMER STUDENTS

A student who, following withdrawal from college, desires to return to the College, should apply to the Dean for readmission. If a student has completed during his absence from the College any undergraduate work in another institution of approved standing, he must submit an official transcript of this work, with a statement of honorable dismissal, from that institution.

PRELIMINARY TESTS AND EXAMINATIONS

During the orientation period all Freshmen are given placement tests in chemistry, English, mathematics, and the foreign language they are to continue. On the results of these tests and general ability tests students are assigned to the proper sections of their respective academic subjects. Physical examinations are also given.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

GENERAL REGULATIONS

The requirements for the degree of Bachelor of Arts are designed to give the students such training in certain fundamental subjects as is essential for intelligent, educated citizens. The requirements also provide the opportunity for as wide an election as possible from courses of study which are both interesting and practically helpful in connection with vocations the students plan later to pursue.

Credit for one hundred and twenty semester hours, on which an average grade of "C" must be made, is required for the degree of Bachelor of Arts in all groups. In addition to these requirements all candidates for the Bachelor of Arts must complete, with an average grade of "C" or better, physical education to the equivalent of six semester hours. In Trinity College the physical education requirement is completed by the end of the Sophomore year; in the Woman's College, by the end of the Junior year.

The Faculty has authorized the groups of studies below for the guidance of students in selecting the work required for graduation. A student is free to choose any group he may desire. The several groups are designed to be of special value in a chosen profession and at the same time to provide a well-balanced course of study. With the approval of the Dean a student may at any time transfer from one group to another. In such transfers, work done in one group and not prescribed in the other will count as general elective credit, but all work prescribed in the new group must be completed before the student can be graduated.

No student is permitted to take less than fourteen semester hours of work without special permission from the Dean; to take more than the normal load of work (fourteen to seventeen semester hours) unless his average grade in the preceding semester is "C" or above; or, under any conditions, to take more than nineteen semester hours of work, exclusive of required physical education.

On or before the date announced for the spring registration every student is required to designate the group in which he plans to graduate and to arrange his program of courses for the ensuing year. All students, when choosing courses, are urged to seek the advice of instructors in whose departments they expect to receive instruction. No course card is valid until it has the approval of the Dean.

SPECIAL REGULATIONS

The following special rules applying to the selection of courses are authorized by the Faculty:

The total amount of work that a student, other than an Honors student, may take in any one department toward the Bachelor of Arts degree is limited to a maximum of thirty-six semester hours; with the exception that a student whose principal work is in the Departments of English, Economics, or Romance Languages may be permitted to take additional work in subdepartments not to exceed a total in the department and the subdepartments of fifty-four semester hours.

Candidates for the degree of Bachelor of Arts whose courses of study permit may elect work from the following subjects: engineering, not to exceed eighteen semester hours; forestry, not to exceed eighteen semester hours. The courses elected in these departments must be those approved by the Council on Undergraduate Instruction as appropriate for the Bachelor of Arts degree and published in the *Bulletin of Undergraduate Instruction.* The classification of these courses, as they affect divisions of concentration and restricted electives, is left to the student's major adviser and to the Dean.

No Senior may take for graduation credit any course primarily open to Freshmen; and no Junior may take for graduation credit more than one course primarily open to Freshmen. A list of these courses is published in the *Bulletin* under "Courses of Instruction."

Not more than one course of six or eight semester hours of credit in final fulfillment of the requirements for the degree of Bachelor of Arts in Duke University may be taken in another institution of approved standing, and this course must first be approved by the head of the department concerned and by the Dean.

MINIMUM UNIFORM REQUIREMENTS FOR ALL GROUPS

The following requirements are authorized for all groups:

	S.H.
English 1-2	6
Natural Science	8
Economics, History, or Political Science	6
Religion	6

In addition to the above requirements, at least the third college year of a foreign language must be completed.

English 1-2, 6 s.h.—This requirement is normally met by the completion of English 1 and 2. A Freshman who satisfies the Department of English of his superior ability in composition may substitute, however, another English course for English 1.

Natural Science, 8 s.h.—A student who does not present for entrance an acceptable unit of science must take sixteen semester hours of science for graduation.

Economics, History, or Political Science, 6 s.h.—A student who does not present for entrance two acceptable units of history (exclusive of other social science work) must take history as his required work; otherwise he may fulfill this requirement in any one of the three subjects.

Foreign Language (third college year).—Students who begin their language requirements in college are expected to follow the sequence of courses

laid down by the department whose work they take and can omit only such course or courses as may be approved both by the department and the office of the Dean. If a Freshman presents for entrance four units of Latin, he may satisfy his language requirements by taking either two years of Latin or two years of Greek. In exceptional cases, on the recommendation of the department and with the approval of the Dean, a student who has completed the second college year of a language may satisfy the requirement in language by completing the first college year of another language.

Of these minimum requirements, at least three courses, including English and foreign language, should be taken in the Freshman year, and all of them, except foreign language and religion, by the end of the Sophomore year.

The courses primarily open to Freshmen and the courses that will satisfy the requirements in history, science, and religion are listed under "Courses of Instruction."

GROUPS OF STUDIES FOR THE DEGREE OF BACHELOR OF ARTS

GROUP I

General

This group is based on the traditional requirement for the degree of Bachelor of Arts. Students who choose it must complete the minimum uniform requirements for graduation; forty-two semester hours in a division of concentration, exclusive of courses open primarily to Freshmen (in the Division of the Natural Sciences a maximum of eight hours of Freshman work is permitted in the forty-two hours mentioned above); twelve semester hours of restricted electives in the other divisions; and free elective work sufficient to complete, with an average grade of "C," the one hundred and twenty semester hours necessary for graduation. The departments of instruction, for purposes of concentration, are grouped in three divisions:

Humanities: English, Fine Arts, German, Greek, Latin, Music, Philosophy, Romance Languages.

Social Science and History: Economics, Political Science, Education, History, Religion, Sociology.

Mathematics, Psychology, and Natural Science: Botany, Chemistry, Geology, Mathematics, Physics, Psychology, Zoology.

The forty-two semester hours in the division of concentration must be distributed as follows: eighteen to twenty-four semester hours in a major department and eighteen to twenty-four semester hours in at least two other departments of the same division with a minimum of six semester hours in each department. The minimum number of hours required by the department for a major shall not include any course open primarily to Freshmen. Introductory courses above the Freshman level are to be counted or not at the discretion of the department concerned.

For purposes of concentration certain courses listed in the same department are considered as being in different departments; namely, courses

in French, Italian, and Spanish. Likewise, courses in economics and business administration are reckoned as being in different departments. Also a student taking his major work in English literature may count courses in English composition, dramatic technique, or public speaking as part of his related work in the same division.

The twelve semester hours of restricted electives must be taken in one or both of the divisions not chosen for concentration, with a minimum of six semester hours in any one department of these divisions.

Attention is called here to a special regulation governing all groups leading to the Bachelor of Arts degree which limits the amount of work a student, other than an Honors student, may take in any one department to a maximum of thirty-six semester hours, with the proviso that a student whose principal work is in the Departments of English, Economics, or Romance Languages is permitted to take additional work in subdepartments not to exceed a total in the department and the subdepartments of fifty-four semester hours.

The remaining hours necessary for graduation, after the minimum uniform requirements, the division of concentration, and the restricted electives are satisfied, are open as free electives.

On or before the date announced for the spring registration every Sophomore in the General Group should designate his division of concentration and his major department, and arrange under the guidance of an instructor in the major department his program of studies for the following year. He should obtain the instructor's written approval of all courses selected in the division of concentration before submitting his program to the Dean for final action. In like manner, upperclassmen will recheck their courses in their divisions of concentration each year with representatives of their major departments.

GROUP II

Business Administration

This group is designed for students who enter college with the purpose of engaging in some form of business activity after graduation. The required work consists of the minimum uniform requirements and the courses specified below.

The following arrangement of specified courses is recommended for students electing this group:

Freshman Year: Economics 11,* Mathematics 3-4, or equivalent.
Sophomore Year: Economics 51-52, 57-58, Political Science 61-62.
Junior Year: Economics 138,† 143.
Senior Year: Economics 153, 181-182.

In addition to the courses specified above, a student in this group must elect twenty-four semester hours from other courses in the Department. Six semester hours of this elective work shall be selected from courses

* This course is recommended but not required.
† With the permission of the Department, students specializing in accounting may substitute for this course one in that subject.

in the two-hundred group offered for Seniors and Graduates. With the permission of the Chairman of the Department students planning to take the examination to qualify as Certified Public Accountants may be released from this requirement.

All elective work in economics must be approved in writing by the Director of Undergraduate Studies.

GROUP III

RELIGION

This group is designed for students who plan to enter the ministry or other religious work as a vocation after graduation. The required work consists of the minimum uniform requirements and the courses specified below.

The following arrangement of specified courses is recommended for students electing this group:

Freshman Year: Religion 1-2, History 1-2.
Sophomore Year: Religion (6 hours), Economics 51-52 or Political Science 61-62, English Literature (6 hours).
Junior Year: Religion (6 hours), Psychology 91, English 151-152.
Senior Year: Religion* (6 hours), Sociology (6 hours), Philosophy (6 hours).

GROUP IV

PRE-MEDICAL

Students qualifying for college graduation in this group must complete, in addition to the minimum uniform requirements, forty-two semester hours in a division of concentration (subject to the regulations of the General Group), twelve semester hours of restricted electives in one or both of the other divisions with at least six semester hours in one department, and certain specific requirements as noted below. These specific requirements may count as part of the divisional concentration (if the division of concentration is the Natural Sciences) or they may count as restricted electives if another division of concentration is chosen. The foreign language should be German or French, preferably the former and including German 107-108.

The normal division of concentration for students electing this group is that of the Natural Sciences, but the student may elect any one of the other two divisions for his divisional concentration. In this case, it may be necessary for him to complete more than one hundred and twenty semester hours for his degree. If, however, the student chooses the Natural Sciences for his division of concentration, he is urged to take as much elective work as possible in the Divisions of the Social Studies and the Humanities.

Completion of English 1 and 2; Chemistry 1-2, 61-70, 151-152; Physics 51-52; and Zoology 1-2 will satisfy the minimum course recommendations

* Not more than six semester hours of electives may be taken in the Department of Religion.

of the Association of American Medical Colleges. Many medical schools advise the completion of additional courses in these and other subjects. The pre-medical student should ascertain the requirements of the particular medical school that he expects to attend.

The following arrangement of the courses in science is suggested:

Freshman Year: Chemistry 1-2, Zoology 1-2, Mathematics 7-8, or equivalent.
Sophomore Year: Chemistry 61-70, Physics 51-52.
Junior Year: Chemistry 151-152.

GROUP V

College Teaching

This group is designed for students who plan to do work in a graduate school and teach in college. The required work consists of the minimum uniform requirements and the work specified below:

French and German through the second year of college work.* Since one of these languages may be taken through the third year of college work to satisfy the minimum uniform requirements, only the one not taken thus must be chosen to meet the conditions of this group.

Twenty-four semester hours of work in the major subject, exclusive of work in the subject offered primarily for Freshmen; twelve semester hours of work in related subjects approved by the student's Departmental Adviser; twelve semester hours in education, philosophy, and psychology, or in any one, not including any courses in secondary or elementary school methods.

Elective work, not to be taken in the major department, sufficient to complete the one hundred and twenty semester hours necessary for graduation.

At least twelve semester hours of the work taken in the Senior year must be in courses open only to Seniors and Graduates.

GROUP VI

Public School Teaching

This group is designed for two classes of students: (a) those who plan to teach in secondary schools; (b) those who plan to teach in elementary schools.

The required work consists of the minimum uniform requirements and the requirements listed under one of the classes below, according to whether the student expects to teach in a secondary school or in an elementary school.

CLASS A: SECONDARY SCHOOL TEACHING

Students in this class are required to take:

Eighteen semester hours in education of which three semester hours may be in general psychology. The work in education must include three semester hours in directed observation and practice teaching, three semes-

* Greek or Latin may be substituted for either French or German.

ter hours in educational psychology, and three semester hours in secondary education.

Six semester hours, three each, in materials and methods, in two fields of high-school teaching.

Work in the subject matter of the two subjects the student intends to teach, sufficient to satisfy the minimum requirements as listed in the table below:

English, twenty-four semester hours, to include the six of required work in composition, six in English literature, and six in American literature.
French, eighteen semester hours, based on the usual two units for admission.
German, Spanish, and Greek, the same requirements as for French.
History, eighteen semester hours, including six each in American, ancient and medieval, and modern European history, and six semester hours of economics or political science. It is recommended to prospective teachers of history and related subjects that they take elective work in sociology, geography, and at least a semester each in economics and political science.
Latin, eighteen semester hours based on the traditional four units for admission.
Mathematics, fifteen semester hours.
Music, thirty semester hours.
Physical Education, fifteen semester hours.
Science, thirty semester hours, including elementary courses in biology, chemistry, physics and geography or geology.

A student may prepare to teach only one high-school subject by taking a major of twenty-four semester hours in that subject (physical education excepted) in addition to the general required work in Class A, the required work in education and psychology, and the specifically required work in directed observation and materials and methods in the subject chosen. In physical education in the Woman's College the requirement for a major is thirty semester hours including three or four semester hours each of comparative anatomy and physiology.

It is recommended that the elective work, sufficient to complete the one hundred and twenty semester hours for graduation, be chosen in the two subjects the student is preparing to teach and in the Division of Social Science, provided the total amount of work taken in any department may not exceed the total allowed in Group I.

Students who are preparing to teach are warned to read carefully the certification rules of the state in which they intend to teach and to advise fully with the Dean before electing courses in subjects they are preparing to teach. They are further warned to take their professional courses in the order outlined by the Department of Education, reserving for their Senior year courses in materials and methods and in directed observation and practice teaching.

At least twelve semester hours of the work in the Senior year must be in courses open only to Seniors or to Seniors and Graduates.

CLASS B: ELEMENTARY SCHOOL TEACHING

Students in this class conform to the general requirements of Group I. Education is treated as a major department, and the Social Science Division as the division of concentration. In addition to the general requirements of Group I, the following specific requirements must be met:

	S.H.
English	3 or 6
American History and Government	6 or 9
Geography	6
Physical Education and Hygiene	6

These special requirements are reckoned in each case as a part of the appropriate division of concentration. The student in Class B should take Education 8 in the first semester of his Freshman year and advise with the Department as to an appropriate course for the spring semester. In all other particulars his course follows the General Group for the first year.

The following arrangement of courses is recommended for Freshmen entering the Teaching Group. The work for the following years will be arranged by the Department of Education.

Freshman Year

	S.H.
English	6
Foreign Language	6
Science	8
History or elective*	6
Education or elective†	6
	32

GROUP VII

Pre-Legal

This group is designed for students who expect to study law after graduation. The required work consists of the minimum uniform requirements‡ and the courses specified below.

The following arrangement of specified courses is recommended:

Freshman Year: Introductory Course in History (1-2 if taken in the Freshman year or 51-52 if taken thereafter).
Sophomore Year: Economics 51-52, Political Science 61-62.
Junior Year: Economics 143, History 105-106, Psychology 91, and either English 151 or 152.
Senior Year: Six semester hours of Economics from courses approved for Seniors.

The electives should be chosen largely from the work offered by the following departments: Philosophy, Sociology, Economics, History, Psychology, and Political Science. The total work (required and elective) in any one department may not exceed thirty semester hours.

At least twelve semester hours of the electives in the Senior year must be Senior-Graduate courses.

* History is an alternate with economics or political science in the minimum requirements when the student presents two units of history for admission.

† Students in Class B should take Education 8 the first semester and follow it with the course approved by the Department of Education the second semester; students in Class A follow the same plan or take any of the electives authorized for the General Group.

‡ When there is overlapping, the minimum uniform requirements are accepted as a part of the special requirements in this group.

GROUP VIII

SOCIAL SERVICE

This group is designed for students who plan after graduation to pursue professional studies in order to engage in practical social welfare work, such as family welfare, child welfare, public welfare, probation and parole, and similar forms of neighborhood and community work. The required work consists of the minimum uniform requirements and the courses specified below. Zoology is recommended for the required course in science.

The following arrangement of specified courses is recommended for students electing this group:

Freshman Year: History 1-2.
Sophomore Year: Economics 51-52, Sociology 91-92 or Sociology 101.
Junior Year: Philosophy (6 hours), Political Science (6 hours), Psychology 91, Sociology (6 hours).
Senior Year: Economics (6 hours), Psychology (6 hours), Sociology (6 hours).

The electives should be chosen mainly from history, economics, political science, education, sociology, philosophy, psychology, and religion.

The subjects required for the Junior and Senior years may be transposed according to the courses available in any particular year.

GROUP IX

HONORS

Purpose: Students who have revealed their desire and demonstrated their ability to do a type of intellectual work higher than that normally required for the liberal arts degree may apply to read for Honors during their last two college years. The aim of the Honors studies is to permit qualified undergraduates to attain a knowledge, both comprehensive and intensive, of a particular field, or fields, under conditions most stimulating to individual initiative and independence.

General Rules:

I. A student who has sixty-two semester hours of work to his credit and who has completed the minimum requirements for graduation may apply to read for Honors. A departmental committee may, however, permit students to take as much as twelve hours of the minimum uniform requirements in the Junior and Senior years provided that these are offset by the same number of hours in related subjects taken previously in courses not open primarily to Freshmen.

II. The Departmental Honors Program constitutes the work of the Honors student during the Junior and Senior years. This program shall be the equivalent of sixty semester hours of work.

III. The minimum amount of work that may be taken in the major department shall be the equivalent of twenty-four semester hours, and the maximum shall be the equivalent of thirty-six semester hours.

IV. The related work, which constitutes at least two fifths of the Honors program, that is, the equivalent of twenty-four semester hours, must be distributed among not less than two departments, unless the departmental committee gives special permission for the student to take his related work in one department.

Departmental Honors: Honors courses are available to qualified students in the following departments: Botany, Chemistry, Economics, Education, English, French, German, Greek, History, Mathematics, Physics, Psychology, Religion, and Zoology.

An undergraduate wishing to qualify for Departmental Honors usually enters the General Group during the Freshman year. At the close of the Sophomore year he may apply to read for Honors in a particular department. The requirements for admission to candidacy for Honors vary in the different departments. The student should consult the special requirements set forth in the "Departmental Honors Program." The Departmental Committee determines the eligibility of the various applicants for Honors reading within the department.

Transfer students from colleges of approved standing may be admitted to candidacy for Honors provided they enter here as Sophomores with high records in their chosen field of work. They should consult by April 15 the Honors Adviser of the Department in which they are interested.

The work required of students in the Departmental Honors Group consists of (1) the minimum uniform requirements; (2) the program of Honors for the Junior and Senior years; and (3) elective work sufficient to complete the semester hours necessary for graduation.

Study in a Department Honors course always includes work in regular open courses. In both Junior and Senior years it may, and usually does, also include work under special instruction (seminarial or tutorial) and assignments of independent reading.

All candidates who complete satisfactorily the minimum uniform requirements, a Departmental Honors course, and elective work sufficient to earn the necessary hours for graduation will be recommended by the Departmental Committee to the Dean of the College for graduation with Honors.

For brief outlines of the various plans for Departmental Honors the student should see the section, "Departmental Honors Program," among the offerings of each department listed above. Students are also urged to consult the Honors Adviser of the department in which they are primarily interested. A list of these Advisers follows:

Botany: Miss Addoms
Chemistry: Mr. Vosburgh
Education: Mr. Holton
English: Mr. Irving
French: Mr. Webb
German: Mr. Vollmer
Greek: Mr. Peppler
History: Mr. Laprade
Mathematics: Mr. Elliott
Physics: Mr. Hatley
Psychology: Mr. Zener
Religion: Mr. Myers
Zoology: Mr. Johnson

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE

The general regulations governing the requirements for the degree of Bachelor of Science are the same as those for the degree of Bachelor of Arts. Students selecting this group must complete the following course of study:

	S.H.
English 1-2	6
French and German (second college year)	12-24
Mathematics	6
Natural Science	8
Economics, History, or Political Science	6
Religion	6
Major and related work	48
Free electives to make a total of	120

English 1-2, 6 s.h.—A Freshman who satisfies the Department of English of his superior ability in English composition may substitute another English course for English 1-2. A Freshman whose scores in the placement tests are too low to justify his admission into English 1 is required to earn credit for English L before he may enter English 1.

French and German.—Bachelor of Science candidates must complete at least the second college year, or equivalent as determined by examination, of both French and German.

Mathematics, 6 s.h.—A candidate for the Bachelor of Science degree must complete Mathematics 7 and 8 or Mathematics 7 and 50 or the equivalent. Mathematics 50 is recommended for students who plan to take Mathematics 51-52. Mathematics 8 is recommended for those who plan not to take Mathematics 51-52. Placement tests in algebra are administered to all entering students planning to take courses in mathematics. Students found deficient in algebra must substitute Mathematics 1 and 2 for Mathematics 7.

Natural Science, 8 s.h.—This requirement can be satisfied by courses in one of the natural sciences, namely, Botany, Chemistry, Geology, Physics, and Zoology. The courses must include laboratory work, and may not be counted as part of the major or related work.

Economics, History, or Political Science, 6 s.h.—A student who does not present for entrance two acceptable units of history (exclusive of other social work) must take a course in history; otherwise he has his choice of Economics, History, or Political Science. The courses that will satisfy this requirement are listed under "Courses of Instruction."

Religion, 6 s.h.—The courses that will satisfy the requirement in Religion are listed in this bulletin under "Courses of Instruction."

Major and Related Work, 48 s.h.—Major and related work consists of forty-eight semester hours in the Division of Natural Sciences. This work must be selected from the Departments of Botany, Chemistry, Geology, Mathematics, Physics, Psychology, and Zoology. The major work consists of not less than twenty-four semester hours in one department, the choice of courses being subject to the approval of the department. The major work does not include courses primarily open to Freshmen. The related work is taken in at least two other departments and is selected subject to the approval of the major department. It may not include more than one course primarily open to Fresh-

men. A minimum of eight semester hours of the total of forty-eight must be in laboratory science. Further information concerning the requirements for the major and related work in the various departments will be found under "Courses of Instruction."

Free Electives.—In addition to the above, the student must elect sufficient courses to complete, with an average grade of "C," the one hundred and twenty semester hours necessary for graduation.

The total amount of work that a student, other than an Honors student, may take in any one department toward the Bachelor of Science degree is limited to a maximum of thirty-six semester hours.

No Senior may take for credit any course primarily open to Freshmen, and no Junior may take for credit more than one course primarily open to Freshmen. A list of these courses is published under "Courses of Instruction."

Not more than one course of six or eight semester hours of credit in final fulfillment of the requirements for the degree of Bachelor of Science in Duke University may be taken in another institution of approved standing, and this course must first be approved by the head of the department concerned and by the Dean.

On or before the date announced for the spring registration every Sophomore in this group should select his major department in the Division of Natural Sciences and arrange under the guidance of an instructor in the major department his program of studies for the following year. He should obtain the instructor's written approval of all courses selected in the division before submitting his program to the Dean for final action. In like manner, upperclassmen will check their courses in the division each year with representatives of their major department.

COMBINED ACADEMIC-PROFESSIONAL COURSES

The provision whereby a Senior may elect the work of the first year in a professional school of the University shall apply solely to eligible students in Trinity College or the Woman's College. The privilege of completing a combined course for the degree is conditioned upon admission to the professional school at the close of the Junior year. A student thus admitted registers as a Senior in the College and as a first-year student in the professional school.

ACADEMIC-LAW COMBINATION

A student who has completed, with an average grade of "C" or higher, ninety-two semester hours of undergraduate work, including the minimum uniform requirements for the degree of Bachelor of Arts and the work of the Junior year in the division of concentration may, with the approval of the Dean of the College, transfer to that school and be eligible for the degree of Bachelor of Arts from Duke University upon the satisfactory completion therein of the work of the first year.

It is understood that this provision shall apply solely to eligible Duke University undergraduates, and that not less than the full first-year's work of the Law School will be acceptable for credit towards the Bachelor degree.

No single discipline or program of study can be described as the best preparation for the study of law. There are various methods of approach to legal study, and students differ with respect to the undergraduate studies by which they profit most in preparing themselves for law school.

Completion of the undergraduate work necessary to qualify for the Academic-Law Combination does not insure admission to the Duke University School of Law, nor impose any restriction whatever upon its freedom in selecting students for admission.

The student who does not desire to avail himself of the Academic-Law Combination above set forth may, nevertheless, enter the Law School when he has satisfactorily completed two* years of academic study and has met the other entrance requirements of that school.

Students wishing information concerning admission to the School of Law are invited to consult with the Dean of that school.

ACADEMIC-FORESTRY COMBINATION

A student who has completed with an average grade of "C" or higher the program of study given below may, with the approval of the Dean of the College, transfer to the School of Forestry and be eligible for the degree of Bachelor of Science from Duke University upon the satisfactory completion of one year's work. It is understood that this provision

* Admission after two years of college work is granted during the period of the war.

shall apply solely to eligible Duke University undergraduates. The professional degree of Master of Forestry may be obtained on the satisfactory completion of an additional year in the School of Forestry.

The program of studies in preparation for admission to the School of Forestry is divided into four parts: (1) a group of studies required of all students; (2) courses required in a selected division of concentration; (3) additional elective courses sufficient to make a total of at least 92 semester hours of credit; and (4) summer field work in surveying and forest mensuration as described below.

The studies required of all students, of which the first four, together with six semester hours of a language, should ordinarily be taken in the Freshman year, are as follows:

	S.H.
Botany 1-2	8
Chemistry 1-2	8
English 1-2	6
Engineering Drawing 1-2	4
Modern Foreign Language*	12-18
Mathematics 7-8	6
Physics 1-2	8
Economics 51-52	6
Geology 51	4

At the end of the Freshman year each student shall select a division of concentration. One of the following programs of concentration is recommended:

Botany. Botany 51, 151, 156, one additional course in Botany, and Zoology 1.
Chemistry. Chemistry 61, 70, and 151-152; and Botany 151.
Economics. Economics 57-58, two additional semester courses in economics, and Political Science 61-62.

A student who does not select one of the above programs must complete the work of the Junior year in a division of concentration.

Summer field work is required of all students in the School of Forestry. This program of twelve weeks, preferably to be taken upon completion of the Junior year, includes Civil Engineering S110 (Plane Surveying), 3 s.h.; Forestry S150 (Forest Surveying), 5 s.h.; and Forestry S151 (Forest Mensuration), 4 s.h.

Completion of the first three years of work toward the Bachelor of Science degree does not insure admission to the Duke University School of Forestry, nor impose any restriction whatever upon its freedom in selecting students for admission.

Students wishing information concerning admission to the School of Forestry are invited to consult with the Dean of that School.

* The requirement is the same as for the Degree of Bachelor of Science, except that Spanish may be substituted for French.

COURSES OF INSTRUCTION, TRINITY COLLEGE AND THE WOMAN'S COLLEGE

Note: *Courses primarily for Freshmen are numbered from 1 to 49; those primarily for Sophomores are numbered from 50 to 99; those primarily for Juniors and Seniors from 100 to 199; those primarily for Seniors and Graduates from 200 to 299. The amount of credit for each course is given in semester hours following the description of the course.*

Odd-numbered courses are offered in the fall semester, and even-numbered courses are offered in the spring semester. Double numbers indicate that the course is a year course and must normally be continued throughout the year if credit is received. A student must secure written permission from the instructor in order to receive credit for either semester of a year-course.

This is a condensed description of courses. For a full description see the Bulletin of Undergraduate Instruction.

COURSES OPEN PRIMARILY TO FRESHMEN

Art 1-2
Botany 1-2
Chemistry 1-2, 3-4
Economics 11
Education 1, 4, 6, 8
English 1-2
French 1-2, 3-4
German 1-2, 3-4
Greek 15
Health Education 41
History 1-2
Latin 1-2-3, 4, 15, 16, 41, 42
Mathematics 1, 2, 3-4, 7, 8, 9-10, 15
Music 11-12
Philosophy 48
Physics 1-2
Political Science 21-22
Religion 1-2
Spanish 1-2, 3-4
Zoology 1-2

AESTHETICS, ART, AND MUSIC

PROFESSOR KATHARINE GILBERT, CHAIRMAN; ASSISTANT PROFESSOR SUNDERLAND, DIRECTOR OF UNDERGRADUATE STUDIES IN ART; MISS AVERILL, SUPERVISOR OF FRESHMAN INSTRUCTION IN ART; ASSISTANT PROFESSORS BRUINSMA AND HALL; MISS LEIGHTON, VISITING LECTURER IN ART; MESSRS. BROADHEAD AND HULL; MRS. GILI

AESTHETICS

FOR SENIORS AND GRADUATES

201-202. The Philosophy of Art.—6 s.h. PROFESSOR GILBERT

213-214. History of Aesthetics.—6 s.h. PROFESSOR GILBERT
[Not offered in 1944-45]

ART

1-2. History of Art.—6 s.h. MISS AVERILL

51-52. History of Art.—6 s.h. MISS AVERILL

53-54. Theory of Representation and Design.—6 s.h. MISS LEIGHTON

55-56. Laboratory in Design.—1 semester hour credit for 3 laboratory hours. MISS LEIGHTON

94. (Old number, 93) American Art.—3 s.h. MISS AVERILL

101. **Mediaeval Architecture.**—3 s.h. ASSISTANT PROFESSOR SUNDERLAND
[Not offered in 1944-45]

102. (Old number, 121) **Mediaeval Painting and Sculpture.**—3 s.h.
[Not offered in 1944-45] ASSISTANT PROFESSOR SUNDERLAND

103. **Renaissance and Baroque Architecture: Italy.**—3 s.h.
ASSISTANT PROFESSOR HALL, ASSISTANT PROFESSOR SUNDERLAND

104. **Renaissance and Baroque Architecture: Spain and the North.**—Prerequisite: 1-2 or 51. 3 s.h. ASSISTANT PROFESSOR HALL
[Not offered in 1944-45]

105. **European Architecture since 1700.**—3 s.h.
ASSISTANT PROFESSOR HALL, ASSISTANT PROFESSOR SUNDERLAND

106. **Architecture of the Americas.**—Prerequisite: 1-2 or 51. 3 s.h.
[Not offered in 1944-45] ASSISTANT PROFESSOR HALL

110. (Old number, 120) **English Architecture.**—Prerequisite: 1-2 or 51. 3 s.h. ASSISTANT PROFESSOR HALL
[Not offered in 1944-45]

123. (Old number, 107) **Renaissance Painting and Sculpture: Italy.**—3 s.h.
ASSISTANT PROFESSOR SUNDERLAND

124. (Old number, 109) **Baroque Painting.**—3 s.h.
ASSISTANT PROFESSOR SUNDERLAND

125. (Old number, 108) **Renaissance Painting and Sculpture: The North.**—3 s.h. ASSISTANT PROFESSOR SUNDERLAND

130. (Old number, 110) **Painting since 1700.**—3 s.h.
ASSISTANT PROFESSOR SUNDERLAND

COURSES OFFERED IN OTHER DEPARTMENTS ACCREDITED IN THIS DEPARTMENT

Greek 141-142. Greek Art.

Greek 247-248. Greek Archaeology.

Psychology 202. Psychology of Aesthetics.

DEPARTMENTAL MAJOR

Prerequisites: 1-2 or 51-52.
Major Requirements: 53-54, and eighteen hours in courses chosen from the departmental offerings, or from courses in other departments accredited in this Department.

MUSIC

THEORY

11-12. **Fundamentals of Music.**—6 s.h. MR. HULL

71-72. **Analysis of Form.**—Prerequisite: Music 11-12. 6 s.h. MR. HULL
[Not offered in 1944-45]

111-112. **Harmony.**—Prerequisite: Music 11-12. 6 s.h. MR. HULL

113-114. **Polyphonic Composition.**—Prerequisite: Music 11-12. 6 s.h.
MR. BROADHEAD

121-122. **Orchestration and Conducting.**—Prerequisite: Music 11-12 or consent of the instructor. 6 s.h. MR. HULL

HISTORY AND CRITICISM

81-82. Introduction to Musical Literature.—6 s.h. MR. BROADHEAD

131-132. Symphonic Literature.—Prerequisite: Music 81-82, or 11-12, or consent of instructor. 6 s.h. MR. HULL

197. Bach.—3. s.h. MR. BROADHEAD
[Not offered in 1944-45]

198. Beethoven.—3 s.h. MR. BROADHEAD
[Not offered in 1944-45]

MUSIC EDUCATION

101. Vocal Methods.—Prerequisite: Music 11-12. 3 s.h.
INSTRUCTOR TO BE ASSIGNED

102. Instrumental Methods.—Prerequisite: Music 11-12. 3 s.h.
INSTRUCTOR TO BE ASSIGNED

151-152. Fundamentals of Music for Education Students.—6 s.h.
INSTRUCTOR TO BE ASSIGNED

APPLIED MUSIC

Instruction in organ, piano, violin, viola, and voice is available to Duke University students. Membership in the Chapel Choir, the Glee Clubs, Bands, and Symphony Orchestra is open to those who can qualify.

Organ.....Mr. Edward Hall Broadhead
Piano.....Mr. Edward Hall Broadhead
Violin and Viola.....Mr. Robert Hull
Vocal Ensembles.....Mr. and Mrs. J. Foster Barnes
Orchestra and Chamber Music.....Mr. Robert Hull

DEPARTMENTAL MAJOR

In Music Theory:

Prerequisite: Music 11-12.

Major Requirements: Music 61-62, 81-82, 111-112, and six semester hours of general music electives.

In Music History:

Prerequisite: Music 11-12.

Major Requirements: Music 81-82, 131-132, 197-198, and six semester hours of general music electives.

In Music Education:

The Department of Music has set up the following minimum requirements within the thirty hours of credit required by the North Carolina Department of Public Instruction for the Music Teaching Certificate: Music 11-12, 6 s.h.; Music 81-82, 6 s.h.; Music 101, 102, 6 s.h.; music electives, 12 s.h.

Each candidate must demonstrate his ability to play simple accompaniments and hymns at sight, and must be a member in good standing of at least one University musical organization (Band, Orchestra, Choir, or Glee Club) for a minimum of two years.

The major requirements above are in addition to the professional requirements of the North Carolina Department of Public Instruction which are common to all certificates. This certificate qualifies a person for both high-school and elementary school teaching.

For required Education courses refer to the Department of Education.

BOTANY

PROFESSOR BLOMQUIST, CHAIRMAN; ASSISTANT PROFESSOR OOSTING, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR ANDERSON, SUPERVISOR OF FRESHMAN INSTRUCTION; ASSOCIATE PROFESSOR ADDOMS, SUPERVISOR OF FRESHMAN INSTRUCTION (WOMAN'S COLLEGE); PROFESSORS BEAL AND WOLF; ASSOCIATE PROFESSORS HARRAR AND KRAMER; ASSISTANT PROFESSOR PERRY; AND ASSISTANTS

1. General Botany.—4 s.h. STAFF

2. General Botany.—Prerequisite: Botany 1. 4 s.h. STAFF

51. Culture and Propagation of Plants.—Prerequisite: one year of botany. 4 s.h. ASSOCIATE PROFESSOR ADDOMS

52. Plant Identification.—Prerequisite: one year of botany. 4 s.h. PROFESSOR BLOMQUIST

55. Morphology and Anatomy of Vascular Plants.—Prerequisite: one year of botany. 4 s.h. ASSISTANT PROFESSOR OOSTING

101. Principles of Heredity.—Prerequisite: one (high-school or college) course in biology, botany, or zoology. High-school or college algebra recommended. 3 or 4 s.h. ASSISTANT PROFESSOR PERRY

103. General Bacteriology.—Prerequisite: one year of botany or zoology, or equivalent. 4 s.h. PROFESSOR WOLF

104. The Structure and Identification of Lower Plants.—Prerequisite: one year of botany. 4 s.h. PROFESSOR BLOMQUIST

151. Introductory Plant Physiology.—Prerequisite: Botany 1, 2 or equivalent; one year of chemistry recommended. 4 s.h. ASSOCIATE PROFESSOR KRAMER

156. Plant Ecology.—Prerequisites: Botany 1, 2, and 52, or equivalent. 4 s.h. ASSISTANT PROFESSOR OOSTING

202. Genetics.—Prerequisites: one year of botany or zoology, or equivalent, and college algebra. 4 s.h. ASSISTANT PROFESSOR PERRY

203. Plant Cytology.—Prerequisite: one year of botany. 4 s.h. [Not offered in 1944-45] ASSISTANT PROFESSOR ANDERSON

204. Advanced Plant Anatomy.—Prerequisite: Botany 55 or equivalent. 4 s.h. ASSOCIATE PROFESSOR ADDOMS

216. Botanical Microtechnique.—Prerequisite: two semesters of botany. 4 s.h. ASSOCIATE PROFESSOR ADDOMS

221. Structure and Classification of Fungi.—Prerequisite: two semesters of botany. 4 s.h. PROFESSOR WOLF

225-226. Special Problems.

a. Bacteriology, Mycology, and Plant Pathology. PROFESSOR WOLF

b. Cytology. ASSISTANT PROFESSOR ANDERSON
[Not offered in 1944-45]

c. Ecology. ASSISTANT PROFESSOR OOSTING

d. Genetics. ASSISTANT PROFESSOR PERRY

e. Morphology and Anatomy of Higher Groups. ASSOCIATE PROFESSOR ADDOMS AND ASSISTANT PROFESSOR OOSTING

f. Morphology and Taxonomy of Lower Groups. PROFESSOR BLOMQUIST

g. Physiology. ASSOCIATE PROFESSORS ADDOMS AND KRAMER

h. Plant Microchemistry. ASSOCIATE PROFESSOR ADDOMS

i. Taxonomy of Higher Groups. PROFESSOR BLOMQUIST

252. **Advanced Plant Physiology.**—Prerequisite: Botany 151 or equivalent; organic chemistry recommended. **4 s.h.**
ASSOCIATE PROFESSOR KRAMER

255. **Advanced Taxonomy.**—Prerequisite: two years of botany, including Botany 52 or equivalent. **4 s.h.** PROFESSOR BLOMQUIST

256. **Field Ecology.**—Prerequisites: Botany 1, 2, and 52 or equivalent. **4 s.h.** ASSISTANT PROFESSOR OOSTING

FOREST BOTANY

224. **Forest Pathology.**—Prerequisites: Botany 1, 2. **3 or 4 s.h.**
PROFESSOR WOLF

253-254. **Dendrology.**—Prerequisite: one year of botany. **4 s.h.**
PROFESSOR BEAL

Related courses which may be counted toward a major in botany. Zoology 110. Introduction to Genetics. **2 s.h.** (w) DR. JOHNSON

NAVY V-12 COURSES

***B1 and B2. Biology I and Biology II.**—Two lecture-recitation periods and two laboratory periods per week. **8 s.h.**

DEPARTMENTAL MAJOR

Prerequisites: Botany 1 and 2.
Major Requirements: A minimum of twenty-one hours of work including courses 52, 55, and 104. The remaining hours may be selected from any other courses in the Department for which the student is eligible, subject to the approval of the Departmental Adviser.

DEPARTMENTAL HONORS PROGRAM

I. *Prerequisites:* Botany 1-2. A year course in each of three other sciences acceptable to the Departmental Committee. Some of these may be taken concurrently with the Honors work.

II. *Honors Work:*

a. Botany.
1. Scheduled courses. At least 5 courses (18-20 semester hours) beyond Botany 1-2.
2. Reading Courses and Problems, chiefly in the Senior year. Nine semester hours. In addition to scheduled courses, each Honors student will take reading courses in such fields as History of Botany and Theories of Biology; or he may take reading courses in special fields; or he may undertake a special problem; or he may carry on both reading and a problem. This work will count as nine semester hours and will extend through a year at least. The student will report to his Adviser regularly for conference on this work. He may be asked to prepare written reports on the reading courses, and he must make a report on his problem.

* B1 and B2 may be substituted for Botany 1-2 or Zoology 1-2.

b. Philosophy—6 semester hours.

c. Electives in Botany or in other departments, subject to the approval of the Departmental Committee.

III. *General Honors Examination:* In the spring semester of the Senior year, each student must pass a general examination on the entire field of his Honors work. The Examining Committee consists of the Departmental Committee and such Advisers as have been concerned with his Honors work. The student must present a written report upon his problem and such written reports upon his reading as may be required, before he is permitted to take the general examination.

CHEMISTRY

PROFESSOR GROSS, CHAIRMAN; PROFESSOR VOSBURGH, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR HILL, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS BIGELOW, LONDON, AND WILSON; ASSOCIATE PROFESSORS HAUSER AND SAYLOR; ASSISTANT PROFESSORS BROWN AND HOBBS; DR. BRADSHER; AND ASSISTANTS

1-2. General Inorganic Chemistry.—8 s.h.
ASSISTANT PROFESSOR HILL WITH PROFESSOR WILSON; ASSOCIATE PROFESSOR SAYLOR; ASSISTANT PROFESSORS BROWN AND HOBBS; DR. BRADSHER; AND ASSISTANTS

61. Qualitative Analysis.—Prerequisites: Chemistry 1-2 or 3-4 and algebra. **4 s.h.**
ASSOCIATE PROFESSOR SAYLOR; PROFESSOR VOSBURGH;
[Not offered in 1944-45] ASSISTANT PROFESSOR HOBBS; AND ASSISTANTS

70. Quantitative Analysis.—Prerequisite: Chemistry 61. Analytic geometry and college physics are desirable but not required. **4 s.h.**
ASSOCIATE PROFESSOR SAYLOR; PROFESSOR VOSBURGH;
[Not offered in 1944-45] ASSISTANT PROFESSOR HOBBS; AND ASSISTANTS

131-132. Advanced Quantitative Analysis.—Prerequisites: Chemistry 70 and Physics 51-52 or equivalent. **4 s.h.**
PROFESSOR VOSBURGH AND ASSOCIATE PROFESSOR SAYLOR

135. Theory of Analytical Chemistry.—Prerequisites: Chemistry 70 or C3 and Chemistry 131 (or 132); the latter may be taken concurrently. **1 s.h.**
PROFESSOR VOSBURGH

151-152. Organic Chemistry.—Prerequisites: Chemistry 61 and 70. Course 151 is prerequisite for 152. **8 s.h.**
PROFESSOR BIGELOW; ASSOCIATE PROFESSOR HAUSER; ASSISTANT PROFESSOR BROWN; DR. BRADSHER; AND ASSISTANTS
[Not offered in 1944-45]

153-154. Intermediate Chemistry Laboratory.—2 or 4 s.h.
PROFESSOR BIGELOW AND OTHER MEMBERS OF THE STAFF
[Not offered in 1944-45]

155-156. Organic Chemistry.—Prerequisites: Chemistry 61 and 70. **6 s.h.**
PROFESSOR BIGELOW; ASSOCIATE PROFESSOR HAUSER; ASSISTANT PROFESSOR BROWN; DR. BRADSHER; AND ASSISTANTS
[Not offered in 1944-45]

173-174. Honors Seminar.—2 s.h. PROFESSOR VOSBURGH
[Not offered in 1944-45]

215-216. Advanced Inorganic Chemistry.—Prerequisites: Chemistry 70 and 151-152. Chemistry 261-262, Physics 59-60 or 213-214, and ability to read German are desirable. **6. s.h.**
PROFESSOR VOSBURGH AND ASSISTANT PROFESSOR HILL
[Not offered in 1944-45]

233-234. Instrumental Analysis.—Prerequisites: Chemistry 70 and 261-262. **2 s.h.** PROFESSOR VOSBURGH AND ASSOCIATE PROFESSOR SAYLOR

236. Theory of Analytical Chemistry.—Prerequisites: Chemistry 70 and 261-262. **1 s.h.** PROFESSOR VOSBURGH

241. Physiological Chemistry.—Prerequisites: Chemistry 70 and 151-152. Course 261-262 is desirable though not required. **4 s.h.**
[Not offered in 1944-45] PROFESSOR WILSON AND ASSISTANT

242. Metabolism.—4 s.h. PROFESSOR WILSON AND ASSISTANT
[Not offered in 1944-45]

253-254. Advanced Organic Chemistry.—Prerequisites: Chemistry 151-152 or equivalent and a reading knowledge of German. **6 or 8 s.h.**
PROFESSOR BIGELOW; ASSOCIATE PROFESSOR HAUSER; AND ASSISTANT PROFESSOR BROWN

261-262. Physical Chemistry.—Prerequisites: Chemistry 70, 151-152, Physics 1-2 or equivalent. Mathematics 8 or 51-52 is required except by special permission of the Department. **6 s.h.**
PROFESSOR GROSS; ASSOCIATE PROFESSOR SAYLOR; AND ASSISTANT PROFESSOR HOBBS

265-266. Chemical Physics, Statistical Theory, Principles and Applications.—8 s.h. PROFESSOR LONDON

267-268. Chemical Physics. Theoretical Aspects of Atomic and Molecular Structure.—8 s.h. PROFESSOR LONDON

271. Introduction to Research.—1 s.h.
PROFESSORS BIGELOW, GROSS, AND VOSBURGH

273-274. Seminar.—2 s.h.
PROFESSORS BIGELOW, GROSS AND VOSBURGH; ASSOCIATE PROFESSORS HAUSER AND SAYLOR; ASSISTANT PROFESSORS BROWN, HILL AND HOBBS; AND DR. BRADSHER

275-276. Research.—3 or 6 s.h.
PROFESSORS BIGELOW, GROSS, LONDON, VOSBURGH AND WILSON; ASSOCIATE PROFESSORS HAUSER AND SAYLOR; ASSISTANT PROFESSORS BROWN, HILL AND HOBBS; AND DR. BRADSHER

NAVY V-12 COURSES

C1-C2. General Inorganic Chemistry.—May be substituted for Chemistry 1-2. **8 s.h.**

C1a-C2a and C6. General Inorganic Chemistry and Engineering Materials.—May be substituted for Chemistry 1-2. **8 s.h.**

C3. Quantitative Analysis.—May be substituted for Chemistry 70. Prerequisite: Chemistry 2 or C2. **4 s.h.**

C4-C5. Organic Chemistry.—May be substituted for Chemistry 151-152. Prerequisite: Chemistry 70 or C3. **8 s.h.**

DEPARTMENTAL MAJOR

A. For the degree of A.B.

Prerequisites: Chemistry 1-2, Mathematics 7-8 (or equivalent).

Major Requirements: Chemistry 61-70, 151-152 and 261-262. With the permission of the Department other chemistry courses giving a total of not less than 6 s.h. credit may be substituted for Chemistry 261-262.

B. For the degree of B.S.

Prerequisites: Chemistry 1-2, Mathematics 7-50 (or equivalent).

Major Requirements: Chemistry 61-70, 131-132, 151-152, 153-154, 261-262. The required work in the Science Division must include Mathematics 51-52 and Physics 51-52 (or equivalent).

DEPARTMENTAL HONORS PROGRAM*

Prerequisites: Chemistry 61-70; Mathematics, 6 s.h., and Physics 51-52 or equivalent.

Honors Program: Chemistry 131-132, 151-152, 153-154, 173-174, 261-262, and 275-276; Mathematics through integral calculus; Physics, Botany, Geology, or Zoology, 6 s.h.; electives, subject to the approval of the Departmental Honors Committee, 20 s.h. (or enough to satisfy the requirements for graduation).

Chemistry 153-154 is a special laboratory course in which there is individual attention to and supervision of the work of each student.

Chemistry 173-174 is a seminar primarily for Honors students of both Junior and Senior years. The purpose is to give practice in the use of chemical literature and the oral presentation of assigned topics.

In Chemistry 275-276 an experimental research project is carried out under the direction of a member of the Staff, the object being to gain acquaintance with the aims and methods of research. A written report on the research is required.

A general examination in chemistry is given at the end of both Junior and Senior years.

ECONOMICS AND BUSINESS ADMINISTRATION

PROFESSOR HOOVER, CHAIRMAN; PROFESSOR DE VYVER, DIRECTOR OF UNDERGRADUATE STUDIES; PROFESSORS HAMILTON, RATCHFORD, SPENGLER, AND VON BECKERATH; ASSOCIATE PROFESSORS BLACK AND LESTER; ASSISTANT PROFESSORS BLUM, DELAPLANE, EITEMAN, LANDON, LEMERT, SHIELDS, SMITH, SPRINGER AND WELFLING; DRS. BERRY, GREGORY, KEECH, VAN VOORHIS; MESSRS. BRYSON AND MILLER (PART-TIME)

ECONOMICS

51-52. Principles of Economics.—6 s.h. (E & W)
PROFESSORS DE VYVER AND SPENGLER; ASSISTANT PROFESSORS BLUM, EITEMAN, LANDON, SMITH, AND WELFLING; DRS. GREGORY AND VAN VOORHIS

103. Transportation.—3 s.h.
ASSISTANT PROFESSOR LANDON AND DR. GREGORY

107. Conservation.—3 s.h. ASSISTANT PROFESSOR LEMERT
[Not offered in 1944-45]

138. Business Statistics.—3 s.h.
ASSISTANT PROFESSORS SMITH AND WELFLING

139. Advanced Business Statistics.—Prerequisite: Economics 138 or the equivalent. **3 s.h.** ASSISTANT PROFESSOR SMITH

* Not offered in 1944-45.

143. Corporation Finance.—3 s.h.
ASSISTANT PROFESSOR EITEMAN; ASSOCIATE PROFESSOR BLACK; DR. GREGORY

144. Investments.—Prerequisite: Economics 57-58 and 143. 3 s.h.
ASSISTANT PROFESSOR EITEMAN; ASSOCIATE PROFESSOR BLACK

153. Money and Banking.—3 s.h.
PROFESSOR RATCHFORD; ASSOCIATE PROFESSOR LESTER; ASSISTANT PROFESSORS BLUM AND WELFLING

154. Advanced Money and Banking.—3 s.h.
PROFESSOR RATCHFORD; ASSOCIATE PROFESSOR LESTER; ASSISTANT PROFESSORS BLUM AND WELFLING

169. Economics of Consumption.—3 s.h. ASSISTANT PROFESSOR SMITH

186. Latin-American Economics.—3 s.h. ASSISTANT PROFESSOR SMITH

187. Public Finance.—3 s.h. PROFESSOR RATCHFORD; DR. GREGORY

215. Economic Systems. PROFESSOR HOOVER

217. Population, Resources, and Standards of Living.—3 s.h.
PROFESSOR SPENGLER

218. Business Cycles.—3 s.h.
ASSOCIATE PROFESSOR LESTER; ASSISTANT PROFESSOR EITEMAN

230. Public Debts in the United States.—Prerequisite: Economics 187 or consent of instructor. 3 s.h. PROFESSOR RATCHFORD
[Not offered in 1944-45]

231. The Economic History of Modern Europe.—3 s.h.
PROFESSOR HAMILTON

232. The Economic History of the United States.—3 s.h.
PROFESSOR HAMILTON

233. State and Local Finance.—Prerequisite: Economics 187 or consent of instructor. 3 s.h. PROFESSOR RATCHFORD

234. Federal Finance.—Prerequisite: Economics 187 or consent of instructor. 3 s.h. PROFESSOR RATCHFORD

237-238. Statistical Methods.—Prerequisite: Economics 138 or consent of the instructor. 6 s.h.
[Not offered in 1944-45]

239. Prices.—3 s.h. PROFESSOR HAMILTON

241-242. Value and Distribution.—6 s.h. PROFESSOR SPENGLER

245. Problems of Modern Industrialism.—3 s.h.
PROFESSOR VON BECKERATH

253. Labor Problems.—3 s.h. PROFESSOR DE VYVER

256. Labor Legislation.—Prerequisite: Economics 253, or with the consent of the instructor. 3 s.h. PROFESSOR DE VYVER
[Not offered in 1944-45]

258. Personnel Management.—Prerequisite: Economics 253. 3 s.h.
PROFESSOR DE VYVER

260. Social Insurance.—3 s.h. PROFESSOR DE VYVER
[Not offered in 1944-45]

265. International Trade and Tariff Policies.—3 s.h.
PROFESSOR VON BECKERATH

266. International Finance.—3 s.h. ASSOCIATE PROFESSOR LESTER
[Not offered in 1944-45]

268. Competitive Versus Monopolistic Enterprise.—3 s.h.
PROFESSOR VON BECKERATH

270. Economics of War.—3 s.h.
PROFESSOR HAMILTON; ASSOCIATE PROFESSOR LESTER; ASSISTANT PROFESSORS BLUM AND WELFLING

280. Advanced Economic Problems.—3 s.h.
PROFESSOR RATCHFORD; ASSISTANT PROFESSOR WELFLING
Required of all Seniors majoring in Economics and open with permission to Seniors in the Business Administration Group.

BUSINESS ADMINISTRATION

A. ACCOUNTANCY

57-58. Principles of Accounting.—6 s.h.
ASSOCIATE PROFESSOR BLACK; ASSISTANT PROFESSOR SHIELDS; DR. VAN VOORHIS

171-172. Advanced Accounting.—6 s.h.
ASSOCIATE PROFESSOR BLACK; ASSISTANT PROFESSOR SHIELDS

173-174. Auditing, Theory and Practice.—Prerequisite: Economics 171-172 and permission of the instructor. 6 s.h. ASSISTANT PROFESSOR SHIELDS

175-176. C. P. A. Review.—Prerequisite: Economics 171-172 and permission of the instructor. 6 s.h. ASSOCIATE PROFESSOR BLACK

177. Income Tax Accounting.—Prerequisite: Economics 171-172 or permission of the instructor. 3 s.h. ASSISTANT PROFESSOR SHIELDS

178. Accounting Systems.—Prerequisite: Economics 171-172 or permission of the instructor. 3 s.h. ASSISTANT PROFESSOR SHIELDS
[Not offered in 1944-45]

180. Governmental Accounting.—Prerequisite: Economics 57-58 and permission of the instructor. 3 s.h. ASSISTANT PROFESSOR SHIELDS

275-276. Advanced Industrial Accounting and Management.—Prerequisite: Economics 171-172 or permission of the instructor. 6 s.h.
ASSOCIATE PROFESSOR BLACK; ASSISTANT PROFESSOR SHIELDS

B. COMMERCE AND INDUSTRY

11. Economic Geography.—3 s.h. ASSISTANT PROFESSOR LEMERT

105. Industrial Management.—3 s.h.
ASSOCIATE PROFESSOR BLACK; DR. GREGORY

109. The Economic Geography of Latin America.—3 s.h.
ASSISTANT PROFESSOR LEMERT

115. Economic Geography.—3 s.h. ASSISTANT PROFESSOR LEMERT

116. **Economic Geography and Industrial Organization.**—Prerequisite: Economics 115. 3 s.h. ASSISTANT PROFESSOR LEMERT

118. **Economic Geography of the South.**—3 s.h.
[Not offered in 1944-45] ASSISTANT PROFESSOR LEMERT

120. **Economic Geography of the Pacific.**—3 s.h.
ASSISTANT PROFESSOR LEMERT

158. **Insurance.**—3 s.h. DR. GREGORY

168. **Marketing.**—3 s.h. ASSISTANT PROFESSOR LANDON; DR. GREGORY

181-182. **Business Law.**—6 s.h.
ASSOCIATE PROFESSOR BLACK; MESSRS. BRYSON AND MILLER

184. **Commercial Law for Accountants.**—3 s.h.
ASSOCIATE PROFESSOR BLACK

NAVY V-12 COURSES

BA1-2. Principles of Economics I and II.—May be substituted for Economics 51-52. **6 s.h.**

BA3. Money and Banking.—May be substituted for Economics 153. **3 s.h.**

BA4. Transportation.—May be substituted for Economics 103. **3 s.h.**

BA5. Accounting I.—May be substituted for Economics 57. **3 s.h.**

BA6. Accounting II.—May be substituted for Economics 58. **3 s.h.**

BA7. Statistics I.—May be substituted for Economics 138. **3 s.h.**

BA10-11. Business Finance.—Four lecture-recitation periods per week for two terms. May be substituted for Economics 143. **8 s.h.**

BA12-13. Business Organization and Management.—May be substituted for Economics 105. **8 s.h.**

BA15-16. Business Law.—May be substituted for Economics 181-182. **6 s.h.**

BA17. Elementary Cost Accounting.—May be substituted for Economics 275. **4 s.h.**

BA18. Accounting and Statistical Controls.—3 s.h.

BA19. Marketing.—May be substituted for Economics 168. **3 s.h.**

DEPARTMENTAL MAJOR

Prerequisites: Economics 51-52, Principles of Economics. 6 s.h. This course is ordinarily taken in the Sophomore year but may be taken by a selected group of Freshmen.

Major Requirements: Twenty-four semester hours in addition to Economics 51-52, to be arranged as follows:

(1) Economics 138.—Business Statistics.—3 s.h.
This course may be taken the second semester of the Sophomore year or during the Junior year. It may be taken by departmental majors in their Senior year only with permission of the Director of Undergraduate Studies.

(2) Economics 153.—Money and Banking.—3 s.h.

(3) Senior-Graduate Courses.—6 s.h.
At least six semester hours must be chosen from Senior-Graduate courses offered in Economics.

(4) Economics 280.—Advanced Economic Problems.—3 s.h.

This course is required of all majors in the Department and is also open to Seniors in the Business Administration Group. It may not be counted as part of the Senior-Graduate course requirement.

(5) Additional Course Work.—9 s.h.

In addition to the special requirements outlined under (1), (2), and (3) above, majors in the Department must elect nine semester hours from courses offered in Economics for Juniors and Seniors. Six hours of Accounting and six hours in Commerce and Industry may be counted toward the completion of this requirement.

(6) Additional work in the Department.

A minimum of twenty-four semester hours of work in the Department is required for a major in Economics. According to the general University regulations, however, majors may take additional work in the subdepartments (Accounting and Commerce and Industry) not to exceed a total in the Department and subdepartments of fifty-four semester hours.

Note: Students who take Economics 51-52 in their Freshman year may in their Sophomore year enroll in courses in the department ordinarily open only to Juniors.

EDUCATION

PROFESSOR HOLTON, CHAIRMAN; PROFESSOR PROCTOR, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR EASLEY, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS BROWNELL, CARR, AND CHILDS; ASSOCIATE PROFESSOR SCATES; VISITING ASSISTANT PROFESSOR VAN ALSTYNE; DR. WATSON; AND ASSISTANTS

1. Orientation Course in Study and Study Habits.—3 s.h. STAFF

4. Introductory Course in History of Education.—3 s.h. STAFF

6. A Study of Reading Skills.—3 s.h.
VISITING ASSISTANT PROFESSOR VAN ALSTYNE

8. The Learning Process.—3 s.h. STAFF

54. Introductory Course in History of Education.—3 s.h.
PROFESSORS HOLTON AND CARR

58. The Learning Process.—3 s.h. DR. WATSON

68. Mental Hygiene of the School Child.—Prerequisite: course 8 or 58. 3 s.h. VISITING ASSISTANT PROFESSOR VAN ALSTYNE

83. Current Trends in American Public School Organization.—3 s.h.
PROFESSOR PROCTOR

101. Introduction to Teaching.—3 s.h. PROFESSOR CARR

103. School Organization and Administration for the Classroom Teacher. —3 s.h. PROFESSOR PROCTOR

Note.—Beginning with the autumn semester of 1944 certain courses—including Education 54, 58, 83, 101, and 103—will be reworked into a sequence of four courses as follows: Education 84 (Social Foundations of Education), Education 88 (Psychological Foundations of Education), Education 101 (Introduction to Curriculum and Technique of Teaching), and Education 110 (Introduction to Measurement and Research in Education). This sequence will constitute twelve required hours of the work in Education in Group VI of the "Groups of Studies" leading to the Bachelor of Arts degree. Students in Group VI should confer with the Director of Undergraduate Studies of the Department as to working this sequence into their schedules.

105. Introduction to Educational Sociology.—3 s.h. PROFESSOR CHILDS

112. Methods of Teaching and Presentation of Subject Matter in the Primary Schools.—Prerequisite: course 101. 4 s.h. PROFESSOR CARR

A. Integrated Art in the Public School. MRS. MASON
[Not offered in 1944-45, unless as many as eight students enroll.]

B. Industrial Art in the Public School. MRS. MASON
[Not offered in 1944-45, unless as many as eight students enroll.]

115-116. Secondary Education: Principles and Practice.—6 or 8 s.h.
PROFESSOR CHILDS AND ASSISTANTS

118. Educational Implications of Genetic Psychology.—Prerequisite: three semester hours in psychology or educational psychology. 3 s.h.
[Not offered in 1944-45] PROFESSOR BROWNELL

122. Methods of Teaching and Presentation of Subject Matter in the Grammar Grades.—Prerequisite: course 101. 4 s.h. PROFESSOR CARR

128. Tests and Measurements in Personnel Work.—3 s.h. DR. WATSON

131. Observation and Practice Teaching.—1 s.h. PROFESSOR CARR

132. Materials and Methods in Health Education.—3 s.h.
ASSISTANT PROFESSOR AYCOCK

136. The Teaching of High-School English.—3 s.h.
ASSISTANT PROFESSOR JORDAN

142. Children's Literature.—3 s.h. PROFESSOR CARR

158. Educational Measurements.—3 s.h. ASSOCIATE PROFESSOR SCATES

170. The Social and Economic Position of Women.—2 s.h. MRS. SMITH

176. Materials and Methods in High-School Science.—Prerequisite: at least eighteen hours of science in college. 3 s.h.
ASSOCIATE PROFESSOR SCATES

185. The Teaching of Religion and Ethics.—3 s.h.
ASSISTANT PROFESSOR CRUM

200. Introduction to the Philosophy of Education.—3 s.h.
[Not offered in 1944-45] PROFESSOR HOLTON

203. Principles of School Administration.—Prerequisite: six semester hours of courses 103 and 58 or their equivalent. 3 s.h. PROFESSOR PROCTOR

205. Curriculum Problems in Secondary Education.—3 s.h.
PROFESSOR CHILDS

206. Sociological Foundations of the Secondary School Subjects.—Prerequisite: general sociology or approved work in education, including course 105. 3 s.h. PROFESSOR CHILDS
[Not offered in 1944-45]

207. Technique of Teaching.—3 s.h. PROFESSOR CARR
[Not offered in 1944-45]

208. Mental Tests and Applications.—Prerequisite: course 258 or six semester hours of other work in educational psychology or psychology. 3 s.h. VISITING ASSISTANT PROFESSOR VAN ALSTYNE

208B. Mental Tests and Applications.—2 s.h.
VISITING ASSISTANT PROFESSOR VAN ALSTYNE

209. Statistical Methods Applied to Education.—2 s.h.
ASSOCIATE PROFESSOR SCATES

212. Psychology of the Elementary School Subjects.—3 s.h.
PROFESSOR CARR

214. History of Education in the United States.—3 s.h.
[Not offered in 1944-45] PROFESSOR HOLTON

215. Educational and Vocational Guidance.—Prerequisite: twelve semester hours in the Department, including course 105 or course 206. 3 s.h.
PROFESSOR CHILDS

216. Psychological Principles of Secondary Education.—3 s.h.
[Not offered in 1944-45] PROFESSOR CHILDS

217. Advanced Educational Psychology.—3 s.h. PROFESSOR BROWNELL

218. Educational Implications of Genetic Psychology.—Prerequisite: six semester hours of psychology or educational psychology. 3 s.h.
[Not offered in 1944-45] PROFESSOR BROWNELL

219. Experimental Education.—3 s.h. PROFESSOR BROWNELL

222. The Curriculum and Materials of the Elementary Grades.—3 s.h.
PROFESSOR CARR

225. The Teaching of History and the Social Studies.—3 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR MANCHESTER

227. The Psychology of Learning: Problems.—3 s.h.
[Not offered in 1944-45] ASSISTANT PROFESSOR EASLEY

228. The Psychology of Learning: Theoretical and Experimental.—Prerequisite: course 227 or its equivalent. 3 s.h.
[Not offered in 1944-45] ASSISTANT PROFESSOR EASLEY

232. Elementary School Supervision.—3 s.h. PROFESSOR CARR
[Not offered in 1944-45]

233. Administrative Pupil-Accounting.—3 s.h. PROFESSOR PROCTOR

234. Secondary School Organization and Administration.—3 s.h.
PROFESSOR PROCTOR

237. Investigations in Reading.—3 s.h. PROFESSOR CARR

244. Studies in the Historical Development of Public School Administration.—3 s.h. PROFESSOR HOLTON
[Not offered in 1944-45]

246. The Teaching of Mathematics.—3 s.h. PROFESSOR RANKIN
[Not offered unless enrollment justifies.]

247. Investigations in Arithmetic.—3 s.h. PROFESSOR BROWNELL

253. Legal Phases of School Administration.—3 s.h. PROFESSOR HOLTON
[Not offered in 1944-45]

254. History of Secondary Education in the United States.—3 s.h.
PROFESSOR PROCTOR

258. Educational Measurements.—Prerequisite: twelve semester hours in the Department, including a course in educational psychology. 3 s.h.
ASSOCIATE PROFESSOR SCATES

264. Recent Movements in American Education.—3 s.h.
PROFESSOR HOLTON

266. The Teaching of High-School French.—3 s.h. PROFESSOR WEBB

294. Comparative Education: Recent Movements in European Educational Systems.—3 s.h. PROFESSOR CARR

DEPARTMENTAL MAJOR

A major in the Department of Education consists of twenty-four semester hours of work above the Freshman year, not including any work listed as primarily for Freshmen, and including at least six semester hours of courses limited to Seniors or to Seniors and Graduates. Students, however, who obtain credit for courses 4 and 8 will be permitted to complete a major by taking twenty hours of additional work in the Department, provided twelve hours are courses limited to Seniors or to Seniors and Graduates. Before graduation, majors in the Department must have credit for at least one course in educational psychology, such as 8, 58, or 68, and one course in history and philosophy of education, or in educational sociology. The remainder of their work may be elected from courses listed for Sophomores, Juniors, and Seniors, provided at least six semester hours of the course work are taken from courses listed for Seniors and Graduates, and provided that not more than six semester hours may be of courses numbered below 100.

DEPARTMENTAL HONORS PROGRAM

Students may become candidates for Honors in education who have passed with grade of "B" or better in their Freshman or Sophomore years six semester hours of education.

Candidates for Honors in education are required to take in the Junior year twelve semester hours in the Department and to make an average of "B" or better on this work. The remaining work in the Junior year will be chosen from related work and other electives with the consent of the Departmental Committee on Honors. In the Senior year, in addition to the equivalent of twelve semester hours of supervised reading in education, the candidate must elect with the approval of the Departmental Committee on Honors six semester hours of work from the courses in education offered in the 200 group, on which he is required to make a grade of "B" or better and twelve semester hours of related or other elective work.

Of the supervised reading, which shall be done under the immediate supervision of members of the Departmental Committee on Honors, the equivalent of six semester hours shall be devoted to the History of Education; the remaining six semester hours shall be devoted to Educational Psychology, or Secondary Education, or Elementary Education, or Public School Administration as the student may elect and the Departmental Committee approve. In exceptional cases, qualified students may be permitted to take six semester hours of the supervised reading during the Junior year and increase the amount of course work in the Department the Senior year.

At the conclusion of the work the student shall be given an oral examination by a committee of three, consisting of the two members of the Departmental Committee on Honors in charge of his supervised reading and another member of the Department selected by the Departmental Committee.

ENGLISH

PROFESSOR WHITE, CHAIRMAN; PROFESSOR IRVING, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR SANDERS, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS BAUM, GILBERT, GOHDES, AND HUBBELL; ASSOCIATE PROFESSORS BLACKBURN, MITCHELL, PATTON, AND WARD; ASSISTANT PROFESSORS BEVINGTON, HERRING, JORDAN, LEARY, SUGDEN, TALBERT, VANCE, WEST, AND WHITE; DRS. HARWELL AND POTEAT; MESSRS. BADENOCH, BRICE, BRYAN, FITZGERALD, AND KENNEDY; MRS. BEVINGTON

1-2. English Composition.—6 s.h.
ASSOCIATE PROFESSORS BLACKBURN, PATTON, AND WARD; ASSISTANT PROFESSORS BEVINGTON, JORDAN, LEARY, SANDERS, SUGDEN, VANCE, AND WHITE; DRS. HARWELL AND POTEAT; MESSRS. BRICE, BRYAN, FITZGERALD, AND KENNEDY; MRS. BEVINGTON

53. English Composition. ASSISTANT PROFESSOR JORDAN
[Not offered in 1944-45]

58. English Composition.—3 s.h. ASSISTANT PROFESSOR JORDAN
[Not offered in 1944-45]

65-66. English Composition.—6 s.h. ASSISTANT PROFESSOR SANDERS
[Not offered in 1944-45]

101-102. Advanced English Composition.—6 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR MITCHELL

103-104. English Composition.—6 s.h. ASSOCIATE PROFESSOR BLACKBURN

107-108. Journalism.—6 s.h. ASSISTANT PROFESSOR SUGDEN

109-110. English Composition.—6 s.h. ASSOCIATE PROFESSOR BLACKBURN
[Not offered in 1944-45]

133. Verse-Writing.—3 s.h. PROFESSOR WHITE

DRAMATICS AND SPEECH

105-106. Playwriting.—6 s.h. ASSISTANT PROFESSOR WEST

119-120. History of the Theater.—6 s.h. ASSISTANT PROFESSOR WEST

121-133. Play Production.—6 s.h. ASSISTANT PROFESSOR WEST

139-140. Speaking Voice.—6 s.h. ASSISTANT PROFESSOR WEST

150. Oral Interpretation of Literature.—3 s.h. MR. BADENOCH

151. Essentials of Public Speaking.—3 s.h. MR. BADENOCH

152. Argumentation.—Prerequisite: English 151. 3 s.h.
ASSISTANT PROFESSOR HERRING AND MR. BADENOCH

ENGLISH AND AMERICAN LITERATURE AND LANGUAGE

55-56. Representative Writers.—6 s.h.
PROFESSOR IRVING; ASSOCIATE PROFESSORS BLACKBURN, PATTON AND WARD; ASSISTANT PROFESSORS SANDERS, SUGDEN AND VANCE; AND DR. POTEAT

63-64. Introduction to English Poetry.—6 s.h.
ASSOCIATE PROFESSOR MITCHELL

123-124. Shakespeare.—6 s.h. ASSISTANT PROFESSOR TALBERT

125-126. English Literature, 1789-1832.—6 s.h.
PROFESSOR WHITE, ASSOCIATE PROFESSOR PATTON AND ASSISTANT PROFESSOR WHITE

127-128. English Prose Literature, 1832-1900.—6 s.h.
[Not offered in 1944-45] ASSISTANT PROFESSOR BEVINGTON

129-130. English Novel.—6 s.h.
ASSOCIATE PROFESSOR MITCHELL AND ASSISTANT PROFESSOR VANCE

137-138. American Literature.—6 s.h.
PROFESSOR GOHDES AND ASSISTANT PROFESSOR LEARY

142. Materials and Methods of Teaching High-School English.—3 s.h.
ASSISTANT PROFESSOR JORDAN

145-146. English Poetry, 1832-1900.—6 s.h. ASSISTANT PROFESSOR SANDERS
[Not offered in 1944-45]

153-154. Comparative Literature.—6 s.h. PROFESSOR IRVING

155-156. Contemporary Drama.—6 s.h. ASSISTANT PROFESSOR WHITE

159-160. English Literary Biography.—6 s.h. PROFESSOR WHITE
[Not offered in 1944-45]

165-166. The Short Story in America.—6 s.h.
PROFESSORS HUBBELL AND GOHDES

167-168. English Prose, 1790-1830.—6 s.h. ASSOCIATE PROFESSOR PATTON

FOR SENIORS AND GRADUATES

201-202. Anglo-Saxon.—6 s.h. PROFESSOR BAUM

203-204. Chaucer.—6 s.h. PROFESSOR BAUM

205-206. Middle English.—6 s.h. PROFESSOR BAUM
[Not offered in 1944-45]

207-208. English Literature, 1400-1550.—6 s.h. PROFESSOR BAUM
[Not offered in 1944-45]

209. English Literature Other than Drama, 1550-1625.—3 s.h.
PROFESSOR GILBERT

210. English Literature Other than Drama, 1625-1700.—3 s.h.
ASSOCIATE PROFESSOR WARD

215-216. Elizabethan Drama.—6 s.h.
PROFESSOR GILBERT AND ASSISTANT PROFESSOR TALBERT

219-220. The Eighteenth Century.—6 s.h. PROFESSOR IRVING

221-222. English Literature of the Early Nineteenth Century.—6 s.h.
PROFESSOR WHITE

223-224. English Literature of the Later Nineteenth Century.—6 s.h.
[In 1944-45 only 224 is offered] PROFESSOR BAUM

227. Literary Criticism.—3 s.h. PROFESSOR GILBERT

229-230. American Literature, 1800-1870.—6 s.h. PROFESSOR HUBBELL

231-232. Special Studies in American Literature.—6 s.h. PROFESSOR GOHDES

233-234. American Literature since 1870.—6 s.h. PROFESSOR GOHDES

237. English Drama, 1642-1800.—3 s.h. ASSOCIATE PROFESSOR WARD

247-248. American Literature of the Colonial Period.
[Not offered in 1944-45]

269-270. Southern Literature.—6 s.h. PROFESSOR HUBBELL
[Not offered in 1944-45]

NAVY V-12 COURSES

E1-2. English I and II.—Three discussion and writing periods each week for two terms. May be substituted for English 1-2. **6 s.h.**

E3-4. English III and IV.—A study of notable contributions to the literature of ideas about man in his social relations. **6 s.h.**

E5. English Literature.—An introduction to the major works of English literature. **3 s.h.**

E6. American Literature.—An introduction to the major works of American literature. May be substituted for English 137. **3 s.h.**

For E6 one of the following is a prerequisite: E3-4, E55 or 56, or E123 or 124. E3 is offered March-July, 1944.

DEPARTMENTAL MAJOR

Prerequisites: English 1 and 2.

Requirements for the Major: A major in English consists of twenty-four semester hours of credit distributed as follows: *six* hours must be carried in English 55-56 or in English 63-64 and *eighteen* hours credit, in courses in English and American literature of the 100 or 200 group.

FORESTRY

Students without a Bachelor's degree who are preparing for work in forestry as a profession should take the courses outlined under the Academic-Forestry Combination (see pages 80-81). However, with the consent of the instructor in charge, certain forestry courses may be elected by students in other curricula provided they have had adequate preparation (see *Bulletin of the School of Forestry*).

Members of the Sophomore, Junior, and Senior classes may elect the following course:

52. Principles of Forestry.—2 s.h. ASSOCIATE PROFESSOR THOMSON
[Not offered in 1944-45]

GEOLOGY

ASSOCIATE PROFESSOR BERRY

51. General Geology.—4 s.h. ASSOCIATE PROFESSOR BERRY

52. General Geology.—Prerequisite: Geology 51. 4 s.h. ASSOCIATE PROFESSOR BERRY

53. Physiography.—4 s.h. ASSOCIATE PROFESSOR BERRY

101-102. Mineralogy.—Prerequisite: Chemistry 1-2 (can be taken concurrently). 8 s.h. ASSOCIATE PROFESSOR BERRY

151. Economic Geology.—Prerequisite: Geology 101-102. 4 s.h. ASSOCIATE PROFESSOR BERRY

152. Introductory Paleontology.—Prerequisites: Geology 51, 52, and Zoology 1. 4 s.h. ASSOCIATE PROFESSOR BERRY

DEPARTMENTAL MAJOR

Prerequisites: None for Geology 51. Chemistry 1-2 for Geology 101-102; Zoology 1 for Geology 152.
Major Requirements: Geology 51, 52, 101-102, 151, 152.

GERMAN LANGUAGE AND LITERATURE

PROFESSOR VOLLMER, CHAIRMAN; ASSISTANT PROFESSOR MAXWELL, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR WILSON, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSOR KRUMMEL; DR. SHEARS AND DR. ROSE

1-2. Elementary German.—6 s.h. ASSISTANT PROFESSOR WILSON AND STAFF

3-4. Intermediate German.—6 s.h. PROFESSOR KRUMMEL AND STAFF

51-52. Third-Year German.—6 s.h. [Temporarily discontinued.]

101-102. Elementary German.—6 s.h. [Temporarily discontinued.]

103-104. Intermediate German.—6 s.h. [Temporarily discontinued.]

107. Scientific German.—3 s.h. PROFESSOR KRUMMEL AND ASSISTANT PROFESSOR WILSON

108. Advanced Scientific and Medical German.—3 s.h. PROFESSOR KRUMMEL AND ASSISTANT PROFESSOR WILSON

109-110. German Prose Fiction.—6 s.h. PROFESSOR KRUMMEL

111-112. Introduction to the Classic Drama.—6 s.h. ASSISTANT PROFESSOR WILSON

113-114. Nineteenth-Century German Poetry.—6 s.h. ASSISTANT PROFESSOR WILSON

115-116. German Drama of the Nineteenth Century.—6 s.h. PROFESSOR KRUMMEL

117-118. German Conversation.—6 s.h.

119-120. German Literature in English Translation.—6 s.h. PROFESSOR VOLLMER

121-122. Schiller.—6 s.h. PROFESSOR VOLLMER

123-124. Modern German Short Story.—6 s.h. DR. SHEARS

125-126. Contemporary German Literature.—6 s.h. DR. SHEARS

129-130. Military and Service German.—3 s.h. per semester. ASSISTANT PROFESSOR WILSON

201-202. Goethe.—6 s.h. PROFESSOR KRUMMEL

203-204. Leibnitz to Romanticism.—6 s.h. PROFESSOR VOLLMER

205-206. Middle High German.—6 s.h. PROFESSOR VOLLMER

207-208. German Romanticism.—6 s.h. PROFESSOR VOLLMER

209-210. Kleist, Grillparzer, and Hebbel.—6 s.h. PROFESSOR KRUMMEL

211-212. Heinrich Heine and Young Germany.—6 s.h. PROFESSOR VOLLMER

213-214. Literature of the Empire, 1871-1914.—6 s.h. PROFESSOR VOLLMER

NAVY V-12 COURSES

Foreign Language 1-2 may be substituted for a first-year language.

Foreign Language 3-4 may be substituted for a second-year language.

Foreign Language 5, 6, and 7 may be substituted for third-year courses.

DEPARTMENTAL MAJOR

1. *Prerequisites:* German 1-2 and 3-4.

2. *Major Requirements:* Twenty-four hours in the German Department. Twelve of these must be selected from the 200 courses. The remaining twelve may be selected from German 51-52 and any courses in the 100 group except 101-102, 103-104, and 119-120.

HONORS IN GERMAN

Prerequisites:

1. For admission to candidacy for Honors in German, a student must have begun the study of the language not later than the Freshman year in college.

2. A student who has completed at least 12 s.h. of college German by the end of the Sophomore year with a grade of "A" or "B" (equivalent courses in secondary schools or in other colleges may be presented as substitutes) is eligible to apply to the Departmental Committee for permission to read for Honors in German.

General Rules:

I. The Departmental Honors Program constitutes the work of the Honors student during the Junior and Senior years. This program shall be the equivalent of sixty semester hours of work.

II. *Work in the German Department:* The amount of work taken in the German Department shall be the equivalent of thirty-six semester hours. Of this the work done in the Honors tutorials shall count twelve hours, six hours for the Junior year and six hours for the Senior year. The comprehensive examinations at the end of the Senior year are counted as part of this twelve semester hours credit.

III. *Related Work:* The related work, which constitutes at least two fifths of the Honors program, that is, the equivalent of twenty-four semester hours, must be distributed among not less than two departments, unless the Departmental Committee gives special permission for the student to take his related work in one department.

IV. *General Honors Examinations:* In May of the Senior year the candidate will be given a general written examination, conducted by his Adviser, on his Honors Reading. A general oral examination, conducted by the Departmental Committee and presupposing a general knowledge of the develop-

ment of German culture and civilization and a practical ability in the use of the German language, will also be conducted in May.

GOVERNMENT

See courses listed under Political Science.

GREEK

PROFESSOR PEPPLER, CHAIRMAN, AND DIRECTOR OF UNDERGRADUATE STUDIES; DR. ROSE, SUPERVISOR OF FRESHMAN INSTRUCTION; ASSISTANT PROFESSOR WAY; DR. TRUESDALE

1-2. Course for Beginners.—6 s.h. PROFESSOR PEPPLER AND DR. ROSE

53-54. Xenophon.—6 s.h. DR. ROSE

105-106. Homer.—6 s.h. PROFESSOR PEPPLER

107-108. Plato.—6 s.h. ASSISTANT PROFESSOR WAY

15. Mythology.—3 s.h. DR. ROSE

115-116. Sight Reading in Greek.—4 s.h. ASSISTANT PROFESSOR WAY AND DR. ROSE

117-118. Greek Prose Composition.—3 s.h. PROFESSOR PEPPLER

121-122. Greek Literature in English Translation.—6 s.h. PROFESSOR PEPPLER

141-142. Greek Art.—6 s.h. ASSISTANT PROFESSOR WAY

131. History of Greece.—3 s.h. ASSISTANT PROFESSOR WAY

203-204. Homer.—Pindar and Bacchylides. 6 s.h. ASSISTANT PROFESSOR WAY AND DR. TRUESDALE

207-208. Greek Orators.—6 s.h. ASSISTANT PROFESSOR WAY

209-210. Plato.—6 s.h. ASSISTANT PROFESSOR WAY

243. Athenian Topography.—3 s.h. ASSISTANT PROFESSOR WAY

244. Greek Epigraphy.—3 s.h. ASSISTANT PROFESSOR WAY

245. Greek Dialects.—3 s.h. ASSISTANT PROFESSOR WAY

246. Greek Historical Inscriptions.—3 s.h. ASSISTANT PROFESSOR WAY

247-248. Greek Archaeology.—6 s.h. ASSISTANT PROFESSOR WAY

257. Social and Cultural History of the Hellenistic World from Alexander to Augustus.—3 s.h. PROFESSOR ROGERS AND DR. TRUESDALE

NAVY V-12 COURSES

Foreign Language 1-2 may be substituted for a first-year language.

Foreign Language 3-4 may be substituted for a second-year language.

Foreign Language 5, 6, and 7 may be substituted for third-year courses.

DEPARTMENTAL MAJOR

Prerequisite: Greek 1-2.

Major Requirements: A candidate for a major in Greek must complete twenty-four semester hours, including the following courses: Greek 53-54, 105-106, 107-108, 117-118, and 131.

DEPARTMENTAL HONORS PROGRAM

For admission to candidacy for Honors in Greek the student must have completed Greek 1-2 and 53-54 or their equivalent.

Candidates for Honors must complete the following program of work:

(a) Greek 105-106, 131, 141-142, 107-108, 122, and 117-118.

(b) Four year-courses in related departments.

(c) The Honors Reading. This is tutorial work in which the student is required to read assigned portions of Greek literature by himself, to write papers on topics related to his reading, and to meet the Honors Adviser in weekly conferences for the discussion of the literature that he is reading independently. For the Honors Reading a credit of nine semester hours is given.

Students who enter the University with advanced standing in Greek take higher courses in the language than those listed above.

At the end of the Senior year candidates for Honors must pass a comprehensive examination in writing on the subject matter covered by their studies in Greek.

Graduates of Duke University may attend the American School of Classical Studies at Athens, Greece, without charge for tuition, and are eligible to compete for the fellowships that are offered annually by the School. These consist of two fellowships in Greek archaeology and one in the language, literature, and history of ancient Greece, each with a stipend of $1,300. They are awarded mainly on the basis of examinations held in the beginning of February of each year.

HEALTH AND PHYSICAL EDUCATION

TRINITY COLLEGE AND THE COLLEGE OF ENGINEERING

MR. WADE, DIRECTOR; MR. CAMERON, ACTING DIRECTOR; MESSRS. AYCOCK, CALDWELL, CARD, CHAMBERS, COOMBS, COX, CRICHTON, FOGLEMAN, GERARD, HAGLER, LEWIS, MONTFORT, PERSONS, POTTER, STANLEY

PHYSICAL EDUCATION CLASSES

1-2. Basketball.—1½ s.h.	MR. CALDWELL
3-4. Boxing.—1½ s.h.	MR. POTTER
5-6. Individual Corrective Activities.—1½ s.h.	MR. AYCOCK
7-8. Handball.—1½ s.h.	MR. GERARD
9-10. Softball.—1½ s.h.	MR. STANLEY
11-12. Soccer Football.—1½ s.h.	MR. GERARD
13-14. Swimming.—1½ s.h.	MR. PERSONS
15-16. Touch Football.—1½ s.h.	MR. GERARD
17-18. Tennis.—1½ s.h.	MR. COX
19-20. Tumbling Stunts.—1½ s.h.	MR. CARD
21-22. Postural Training.—1½ s.h.	MR. AYCOCK

25-26. Wrestling.—1½ s.h. MR. POTTER

27-28. Apparatus Stunts.—1½ s.h. MR. CARD

49. Lacrosse.—1½ s.h. MR. POTTER

55-56. Individual Corrective Activities.—1½ s.h. MR. AYCOCK

59. Baseball.—1½ s.h. MR. COOMBS

61-62. Golf.—1½ s.h. MR. CRICHTON AND MR. HAGLER

63-64. Advanced Tennis.—1½ s.h. MR. COX

65-66. Advanced Apparatus.—1½ s.h. MR. AYCOCK

INTERCOLLEGIATE ATHLETIC SPORTS

FRESHMEN	VARSITY
30. Baseball.—1½ s.h.	70. Lacrosse.—1½ s.h.
32. Basketball.—1½ s.h.	80. Baseball.—1½ s.h.
37. Football.—1½ s.h.	82. Basketball.—1½ s.h.
38. Football.—1½ s.h.	83. Basketball.—1½ s.h.
41. Cross Country.—1½ s.h.	87. Football.—1½ s.h.
42. Swimming.—1½ s.h.	88. Football.—1½ s.h.
44. Tennis.—1½ s.h.	90. Golf.—1½ s.h.
46. Track.—1½ s.h.	91. Cross Country.—1½ s.h.
48. Wrestling.—1½ s.h.	92. Tennis.—1½ s.h.
50. Lacrosse.—1½ s.h.	93. Soccer Football.—1½ s.h.
	94. Swimming.—1½ s.h.
	95. Track.—1½ s.h.
	96. Track.—1½ s.h.
	98. Wrestling.—1½ s.h.

ELECTIVES IN PHYSICAL EDUCATION

Students in Group VI A may elect fifteen semester hours from the courses offered below. Six semester hours may be elected from the courses listed under Special Methods in Physical Education and nine semester hours may be elected from the courses listed under Theory and Practice in Physical Education.

These courses are arranged to meet the increasing demand for teachers who are qualified to coach and teach physical education. These courses should be selected with the advice of the Director of Undergraduate Studies in order to meet the needs of the individual.

SPECIAL METHODS IN PHYSICAL EDUCATION

163. **Athletic Coaching in Secondary Schools.**—Prerequisites: courses 30 or 80 and 21-22 or 46 or 96 or their equivalent. 3 s.h.
MR. COOMBS, MR. CHAMBERS

164. Athletic Coaching in Secondary Schools.—Prerequisites: courses 37 or 87 and 1-2 or 32 or 82 or their equivalent. 3 s.h.
MR. CAMERON, MR. STANLEY

THEORY AND PRACTICE IN PHYSICAL EDUCATION

65. History and Principles of Physical Education.—3 s.h.
MR. AYCOCK, MR. GERARD

172. Recreational Leadership.—3 s.h. MR. GERARD

173. Individual Gymnastics.—3 s.h. MR. AYCOCK

182. The Administration of Health and Physical Education in Secondary Schools.—3 s.h. MR. AYCOCK, MR. GERARD

187. School Programs of Physical Education.—3 s.h. MR. GERARD

190. Protective Practices in Physical Education.—3 s.h. MR. CHAMBERS

NAVY V-12 COURSES

Navy V-12 courses may be substituted for required physical training.

WOMAN'S COLLEGE

ASSISTANT PROFESSOR GROUT, CHAIRMAN; MRS. DRUMMOND, MISS JUDD, MISS LEWIS, MISS PETERSON, MISS SMITH, AND MISS WEEKS

PHYSICAL EDUCATION ACTIVITIES

Six hours of credit in physical education, with an average grade of "C," must be completed for graduation. Two hours a week through the Junior year are needed to fulfill this requirement.

All students are given a physical and medical examination upon entering and at intervals throughout their college course. Classes in individual gymnastics and light sports are arranged for those who should not take the more active work.

October to December: Badminton, bowling, diving, golf, hockey, recreational sports, riding, soccer, swimming, tennis, volleyball.

December to March: Basketball, body mechanics, bowling, clog and tap dancing, folk dancing, social dancing, modern dance, rhythm fundamentals, fencing, individual gymnastics, life saving, riding, swimming, first aid.

March to May: Archery, badminton, bowling, diving, fencing, golf, life saving, modern dance, riding, softball, swimming, tennis, first aid, learning and directing recreational sports.

PHYSICAL EDUCATION THEORY

Students in Group VI A may receive academic credit for all courses listed below.

Students in Group VI B may receive academic credit for Physical Education 102, Health Education 41 and 112.

Students in all groups may receive credit for Physical Education 105-106, 108, and Health Education 41, 112, and 115.

101. History and Principles of Physical Education.—2 s.h.
ASSISTANT PROFESSOR GROUT

102. The Teaching of Physical Education in Elementary Schools.—3 s.h.
MISS WEEKS

105-106. Methods and Materials in Recreation.—6 s.h.
Supervisor: ASSISTANT PROFESSOR GROUT. Teachers: ASSOCIATE PROFESSOR ADDOMS, ASSISTANT PROFESSOR WEST, MRS. DRUMMOND, MISS PETERSON, MISS WEEKS

108. Problems in Community Recreation.—3 s.h. MISS ————

114. Kinesiology.—3 s.h. MISS SMITH

118. Orthopedic and Remedial Physical Education.—3 s.h. MISS SMITH

119. Organization and Administration of Physical Education.—2 s.h.
ASSISTANT PROFESSOR GROUT

181-182. Methods and Materials in Physical Education.—6 s.h.
MISS LEWIS AND STAFF

185-186. Advanced Methods and Materials in Physical Education.—6 s.h.
MISS LEWIS AND STAFF

HEALTH EDUCATION

41. Personal Health Problems.—Prerequisite for students preparing to teach physical education. 3 s.h. MISS PETERSON

112. School Health Problems.—3 s.h. MISS PETERSON

115. Community Health Problems.—Prerequisite: Health Education 41. 3 s.h. MISS PETERSON

REQUIREMENTS FOR TEACHING HEALTH AND PHYSICAL EDUCATION IN THE PUBLIC SCHOOLS

The following requirements have been set up for students in Group VI A who wish to qualify as full-time or part-time teachers of Health and Physical Education. These requirements meet the standards of the North Carolina Department of Public Instruction for certification in Health and Physical Education and of most of the other states represented in the student body. Students preparing to teach in any state are advised to check with the department as to specific requirements.

Prerequisites: Zoology 1-2, Health Education 41.

Thirty semester hours, including Physical Education 101, 118, 119, 181-182, 185-186, Health Education 112, Zoology 53, 151.

Education Requirements: Consult Department of Education.

Students preparing to teach physical education and health on a part-time basis only are advised to take at least the following program:

Prerequisite: Health Education 41.

A minimum of fifteen semester hours including Physical Education 101, 119, 181-182, Health Education 112 and a physical education elective, three semester hours.

Education Requirements: Consult Department of Education.

HISTORY

PROFESSOR LAPRADE, CHAIRMAN; ASSOCIATE PROFESSOR NELSON, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR HAMILTON, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS BALDWIN, CARROLL, CLYDE, LANNING, AND SYDNOR; ASSOCIATE PROFESSOR MANCHESTER; ASSISTANT PROFESSORS MCCLOY, QUYNN, ROBERT, ROPP, STILL, AND WOODY; DRS. BREWSTER, CHAFFIN, FERGUSON, PARKER, AND WATSON; MR. VAN DUSEN

1-2. Historical Background of the World Today.—6 s.h.
PROFESSORS CLYDE AND LAPRADE; ASSOCIATE PROFESSOR NELSON; ASSISTANT PROFESSOR QUYNN; DR. CHAFFIN

51-52. Historical Background of the World Today.—6 s.h.
PROFESSOR BALDWIN
[Not open to Freshmen or to students who have had course 1-2.]

61-62. Russia and the Near East from Peter the Great to Stalin.—Prerequisite: course 1-2 or 51-52. 6 s.h. ASSISTANT PROFESSOR ROPP
[Not offered in 1944-45]

63-64. Sea Power and Modern Navies.—6 s.h. ASSISTANT PROFESSOR ROPP
[Not offered in 1944-45; see course N3 below.]

65-66. The Social and Cultural History of Western Europe in the Seventeenth and Eighteenth Centuries.—6 s.h. ASSISTANT PROFESSOR MCCLOY
[Not offered in 1944-45]

91. Political and Social History of the United States to 1850.—3 s.h.
PROFESSOR SYDNOR; ASSISTANT PROFESSORS ROBERT AND WOODY; DR. BREWSTER, AND MR. VAN DUSEN

92. Political and Social History of the United States since 1850.—3 s.h.
PROFESSOR SYDNOR; ASSISTANT PROFESSORS ROBERT AND WOODY; DR. BREWSTER, AND MR. VAN DUSEN

101-102. Early European Civilization.—6 s.h.
ASSISTANT PROFESSOR QUYNN

105-106. English Constitutional History.—6 s.h.
[Not offered in 1944-45] ASSISTANT PROFESSOR HAMILTON

107-108. Social and Cultural History of England.—6 s.h. DR. FERGUSON
[Not offered in 1944-45]

109-110. Political and Cultural Foundations of Modern Europe, 1400-1648.—6 s.h. ASSOCIATE PROFESSOR NELSON
[Not offered in 1944-45]

114. History of the United States since Reconstruction.—Prerequisites: courses 91 and 92. 3 s.h. PROFESSOR LANNING
[Not offered in 1944-45]

119-120. Social and Cultural History of the United States.—Prerequisites: courses 91 and 92. 6 s.h. ASSISTANT PROFESSOR ROBERT
[Not offered in 1944-45]

121-122. The Church in American History.—Prerequisites: courses 91 and 92. 6 s.h. PROFESSOR BALDWIN
[Not offered in 1944-45]

123-124. English History.—6 s.h. PROFESSOR LAPRADE

125. The Ancient Regime, the French Revolution, and Napoleon.—3 s.h.
[Not offered in 1944-45] DR. PARKER

126. The Congress of Vienna and the Rise of the European Nations to 1870.—3 s.h. DR. PARKER
[Not offered in 1944-45]

127. History of Latin America Through the Formation of the National Governments.—3 s.h. PROFESSOR LANNING

128. Inter-American Affairs.—3 s.h. PROFESSOR LANNING

Ancient History.—Greek 131—Latin 131-132.

135. Main Currents in European History, 1815-1914.—3 s.h.
[Not offered in 1944-45] ASSISTANT PROFESSOR HAMILTON

136. Europe since 1914, Including the Rise of the Totalitarian States, Russia, Italy, and Germany; the Second World War.—3 s.h.
ASSISTANT PROFESSOR HAMILTON

141-142. The Far East from Commodore Perry to Chiang Kai-shek—6 s.h.
PROFESSOR CLYDE

153-154. The History of the South.—6 s.h. PROFESSOR SYDNOR

FOR SENIORS AND GRADUATES

209-210. American Constitutional History.—Prerequisites: courses 91 and 92. 6 s.h. ASSISTANT PROFESSOR STILL
[Not offered in 1944-45]

211. The Teaching of History and the Social Studies (Education 225).—3 s.h. ASSOCIATE PROFESSOR MANCHESTER
[Not offered in 1944-45]

215-216. The Foreign Policy and Diplomacy of the United States.—6 s.h.
PROFESSOR CLYDE

217-218. Europe since 1870.—6 s.h. PROFESSOR CARROLL
[Not offered in 1944-45]

219-220. The History of the European Proletariat.—6 s.h.
[Not offered in 1944-45] PROFESSOR CARROLL

221-222. The Age of the Renaissance.—6 s.h.
ASSOCIATE PROFESSOR NELSON

223-224. Medieval Institutions and Culture.—6 s.h.
ASSISTANT PROFESSOR QUYNN

225-226. The Age of the Reformation.—6 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR NELSON

230. The Portuguese Empire and the Rise of Brazil.—3 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR MANCHESTER

231. The Hispanic Colonies of the New World.—3 s.h.
PROFESSOR LANNING

232. Hispanic Republics of the New World.—3 s.h. PROFESSOR LANNING

233. The Cultural and Institutional History of Colonial Hispanic America.—3 s.h. PROFESSOR LANNING
[Not offered in 1944-45]

234. Political and Social Problems in the Hispanic American Republics.—3 s.h. PROFESSOR LANNING
[Not offered in 1944-45]

241-242. The Foreign Relations and Diplomacy of the United States in the Pacific Area and the Far East.—6 s.h. PROFESSOR CLYDE
[Not offered in 1944-45]

263-264. American Colonial History and the Revolution, 1606-1783.—Prerequisites: courses 91 and 92. 6 s.h. ASSISTANT PROFESSOR WOODY

265-266. The Westward Movement in the United States.—Prerequisites: courses 91 and 92. 6 s.h. ASSISTANT PROFESSOR STILL
[Not offered in 1944-45]

NAVY V-12 COURSES

H1-2. Historical Background of Present World War.—May be counted as an introductory course in History. 4 s.h.

N3. Naval History and Elementary Strategy.—3 s.h.

H3. The Ecclesiastical Age.—3 s.h.

H4. A Course Covering the 14th, 15th, 16th, and 17th Centuries to the Close of the Religious Wars in 1648.—3 s.h.

H5. Origins of Modern Europe, 1648-1815.—3 s.h.

H6. Europe in Modern Times from the French Revolution to the Munich Pact.—3 s.h.

H7. American History.—3 s.h.

DEPARTMENTAL MAJOR

Prerequisites: The Introductory Course in History (1-2 or 51-52).

Major Requirements: Students in the General Group desiring to take a major in history are required to elect twenty-four semester hours in the Department, including six semester hours in the Senior year from courses in the 200 group. Students desiring to take the more advanced courses in American history should elect courses 91 and 92 in the Sophomore or Junior year.

DEPARTMENTAL HONORS PROGRAM

Students may become candidates for Honors in history who have passed with a grade of "B" or better in their Freshman and Sophomore years courses 91 and 92 in addition to the introductory course in European history.

Candidates for Honors in history are required to take in the Junior year two courses in history offered in the 100 group and to make an average grade of "B" or better on this work. The remaining work in the Junior year will be chosen from related work and other electives with the consent of the Departmental Committee on Honors. In the Senior year, in addition to the equivalent of fifteen semester hours of supervised reading in history, the candidate must elect with the approval of the Departmental Committee on Honors six semester hours of work from the courses in history offered in the 200 group, on which he is required to make a grade of "B" or better, and nine semester hours of related or other elective work.

Of the supervised reading, which shall be done under the immediate supervision of members of the Departmental Committee on Honors, the equivalent of six semester hours shall be devoted to the classical historians such as Herodotus, Thucydides, Tacitus, Livy, Bede, the better-known chronicles, Machiavelli, Gibbon, Hume, Voltaire, Ranke, and others; the equivalent of

nine semester hours shall be devoted to selected fields in either American or European history as the student may elect and the Departmental Committee advise.

At the conclusion of the work the student shall be given an oral examination by a committee of three, consisting of the two members of the Departmental Committee on Honors in charge of his supervised reading and another member of the Department selected by the Departmental Committee.

LATIN AND ROMAN STUDIES

PROFESSOR ROGERS, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES; DR. ROSE, SUPERVISOR OF FRESHMAN INSTRUCTION; ASSISTANT PROFESSOR GATES

1-2. Courses for Beginners.—6 s.h. DR. ROSE

3. Cicero's Orations.—Prerequisite: two entrance units of Latin. 3. s.h. ASSISTANT PROFESSOR GATES OR DR. ROSE

4. Vergil's Aeneid.—Prerequisite: three entrance units and Latin 57 taken in the semester preceding admission to the course, unless Latin 3 was taken. 3 s.h. ASSISTANT PROFESSOR GATES OR DR. ROSE

41. Livy's History of Rome.—3 s.h. THE STAFF

42. Horace.—3 s.h. THE STAFF

53. Sallust and Tacitus.—Prerequisite: Latin 41-42 or an equivalent. 3 s.h. DR. ROSE

54. Catullus. DR. ROSE

57. Sight Reading in Classical Latin.—1 s.h. DR. ROSE

58. Sight Reading in Medieval Latin.—Prerequisite: at least one of the following courses: Latin 3, 4, 41, 42, and 57, or an equivalent. 1 s.h. DR. ROSE

65-66. Latin Prose Composition.—2 s.h. DR. ROSE

101. Tacitus and Suetonius.—3 s.h. PROFESSOR ROGERS

102. Juvenal and Persius.—3 s.h. PROFESSOR ROGERS

103. The Roman Elegiac Poets.

104. Horace: Satires and Epistles.

105. Martial's Epigrams.

106. Letters of Pliny the Younger.

107. Livy: Ab Urbe Condita.

108. Cicero's Letters.

109. Materials and Methods.—Prerequisite: eighteen approved semester hours of college Latin, including courses 41-42, 53-54, or equivalent courses. 3 s.h.

111-112. Roman Literature in English Translation.

113-114. Roman Civilization.

115-116. Art and Architecture of Ancient Rome.

131-132. History of Rome.—6 s.h. PROFESSOR ROGERS

203-204. Roman Epic: Ennius, Vergil, Manilius, Lucan, Flaccus, Statius, Silius.—6 s.h. ASSISTANT PROFESSOR GATES

205-206. Roman Drama.—6 s.h. ASSISTANT PROFESSOR GATES

207-208. Roman Philosophy.

209-210. Vulgar Latin: Introduction to Romance Philology.

211-212. Roman Oratory.—6 s.h. PROFESSOR ROGERS

215. Roman Art and Archaeology.

216. Topography and Monuments of Ancient Rome.

NAVY V-12 COURSES

Foreign Language 1-2 may be substituted for a first-year language.

Foreign Language 3-4 may be substituted for a second-year language.

Foreign Language 5, 6, and 7 may be substituted for third-year courses.

DEPARTMENTAL MAJOR

Prerequisites: Latin 41-42, 65-66, or acceptable equivalents.

Major Requirements: Latin 53-54, 101-102, six semester hours in courses numbered from 103 to 108, and six semester hours in courses numbered from 200 to 299 to be taken in the Senior year.

In addition, all majors are expected to pursue course 131-132, History of Rome.

Majors who contemplate graduate work are reminded of the necessity of Greek, German, and French for such study.

LAW COURSES FOR ACADEMIC STUDENTS

The first-year program of the Law School will include the following courses:

Subject	*Semester Hours*
Agency	2
Contracts	6
Criminal Law and Its Administration	3
Family Law	2
Introduction to Procedure	3
Legal Bibliography	1
Personal Property	2
Possessory Estates	2
Torts	5
	26

MATHEMATICS

PROFESSOR GERGEN, CHAIRMAN; PROFESSOR ELLIOTT, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR DRESSEL, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS RANKIN, AND THOMAS; ASSOCIATE PROFESSORS CARLITZ AND ROBERTS; ASSISTANT PROFESSORS HICKSON, MAKER, PATTERSON, AND RICHARDSON; DR. WADE; MISS CONE; MISS PIRKLE (PART-TIME); AND ASSISTANTS

1. Introduction to College Algebra.—3 s.h. STAFF

1A. College Algebra.—4 s.h. STAFF

2. Trigonometry.—Prerequisite: Mathematics 1 or the equivalent. 3 s.h. STAFF

2A. Trigonometry.—Prerequisite: Mathematics 1A or the equivalent. 4 s.h. STAFF

3-4. Mathematical Analysis for Students of Business.—6 s.h. STAFF

7. Algebra and Trigonometry.—3 s.h. STAFF

8. Introduction to Analytic Geometry and Calculus.—3 s.h. STAFF

9-10. First-Year Engineering Mathematics.—10 s.h. STAFF

15. Spherical Geometry and Trigonometry.—Prerequisite: Mathematics 7 or the equivalent. 3 s.h. ASSISTANT PROFESSOR DRESSEL

50. Analytic Geometry.—Prerequisite: Mathematics 7 or the equivalent. 3 s.h. STAFF

51-52. Differential and Integral Calculus.—Prerequisite: Mathematics 50 or permission from the instructor. 6 s.h. STAFF

59-60. Second-Year Engineering Mathematics.—Prerequisite: Mathematics 9-10 or the equivalent. 8 s.h. STAFF

63. Graphical and Numerical Computation.—Prerequisite: Mathematics 7 or the equivalent. 3 s.h. PROFESSOR THOMAS

64. Mathematicc of Artillery Fire.—Prerequisite: Mathematics 7 or the equivalent. 3 s.h. PROFESSOR THOMAS

71. Mathematics of Investment.—Prerequisite: 6 semester hours of college mathematics. 3 s.h. ASSISTANT PROFESSOR HICKSON

74. Statistics.—Prerequisite: 6 semester hours of college mathematics. 3 s.h. ASSISTANT PROFESSOR HICKSON

76. Mathematical heory of Economics.—Prerequisite: Mathematics 4 or the equivalent. 3 s.h. ASSISTANT PROFESSOR HICKSON

131. Elementary Differential Equations.—Prerequisite: integral calculus. 3 s.h. ASSISTANT PROFESSOR HICKSON

139-140. Second Course in Calculus.—Prerequisite: integral calculus. 6 s.h. ASSISTANT PROFESSOR MAKER

158. Finite Differences.—3 s.h. ASSOCIATE PROFESSOR CARLITZ

160. Elementary Solid Analytic Geometry.—Prerequisite: integral calculus. 3 s.h. ASSOCIATE PROFESSOR CARLITZ

161-162. **Reading Course for Juniors.**

163-164. **Reading Course for Seniors.**

FOR SENIORS AND GRADUATES

201. **History of Mathematics.**—Prerequisite: differential calculus. 3 s.h.
PROFESSOR RANKIN

204. **Teaching of Mathematics.**—3 s.h. PROFESSOR RANKIN

225. **Theory of Equations.**—Prerequisite: integral calculus. 3 s.h.
PROFESSOR THOMAS

227-228. **Theory of Numbers.**—Prerequisite: integral calculus. 6 s.h.
ASSOCIATE PROFESSOR CARLITZ

229-230. **Algebraic Numbers.**—Prerequisite: Mathematics 225. 6 s.h.
ASSOCIATE PROFESSOR CARLITZ

235-236. **Modern Algebra.**—Prerequisite: integral calculus. 6 s.h.
ASSOCIATE PROFESSOR CARLITZ

250. **Modern Geometry.**—3 s.h. PROFESSOR THOMAS

255-256. **Projective Geometry.**—Prerequisite: integral calculus. 6 s.h.
PROFESSOR THOMAS

271-272. **Introductory Topology.**—Prerequisite: integral calculus. 6 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR ROBERTS

275. **Probability.**—Prerequisite: integral calculus. 3 s.h.
ASSISTANT PROFESSOR DRESSEL

281. **Elementary Potential Theory.**—Prerequisite: integral calculus. 3 s.h.
PROFESSOR GERGEN

282. **Differential Equations of Mathematical Physics.**—Prerequisite: integral calculus. 3 s.h. ASSISTANT PROFESSOR DRESSEL

283. **Fourier Series and Spherical Harmonics.**—Prerequisite: integral calculus. 3 s.h. ASSISTANT PROFESSOR DRESSEL

284. **Vector Analysis.**—Prerequisite: integral calculus. 3 s.h.
PROFESSOR THOMAS

287. **Mathematical Logic.**—3 s.h. ASSOCIATE PROFESSOR CARLITZ

288. **Foundations of Mathematics.**—3 s.h. ASSOCIATE PROFESSOR CARLITZ

291-292. **Theory of Functions.**—Prerequisite: second course in calculus. 6 s.h. PROFESSOR GERGEN

V-12 COURSES IN MATHEMATICS

For a description of courses M1 through M9 see Navy V-12 Bulletin, No. 101, November 1, 1943.

MR-MS. Mathematical Analysis R-S.—Mathematics MR covers the material of Mathematics M1 with the exception of the following topics: functions of multiple angles, addition formulas, identities, inverse trigonometric functions, trigonometric equations. Mathematics MR-MS covers the material of Mathematics M1-M2. Mathematics MR-MS may be substituted for Mathematics 9-10. Six recitations per week. Mathematics MR, 4 s.h.; Mathematics MS, 6 s.h.

M1-M2. Mathematical Analysis I-II.—May be substituted for Mathematics 9-10. **10 s.h.**

M3-M4. Mathematical Analysis III-IV.—May be substituted for Mathematics 9-10. **10 s.h.**

M5-M6. Calculus I-II.—May be substituted for Mathematics 59-60. **7 or 8 s.h.**

M7. Calculus III.—May be substituted for Mathematics 131. **3 s.h.**

M8-M9. Elementary Navigation and Nautical Astronomy Ia-IIa.—6 s.h.

DEPARTMENTAL MAJOR

Prerequisite: Six semester hours of Freshman mathematics.

Major Requirements: Mathematics 51-52 or 59-60 and twelve semester hours in courses numbered above 100. The twelve hours must be approved by the Department through the Director of the Undergraduate Studies.

DEPARTMENTAL HONORS PROGRAM

Prerequisites: A student who meets the general requirement as to candidacy of the Honors Group, who has completed Mathematics 51 or 59, and who has earned an average grade of "B" or better in his courses in mathematics, may become a candidate for Honors.

Honors Work:

(a) Work in Mathematical Courses: To graduate with Honors a candidate must complete, during his Honors program, a minimum of eighteen semester hours of course work in regular open courses numbered above 100. These courses must be completed with an average grade of "B" or better.

(b) Tutorial Work: During his Honors program a candidate reads on special topics in mathematics under the personal supervision of a tutor. A candidate must earn a minimum of six semester hours of credit in his tutorial work. He cannot earn more than nine semester hours in his tutorial work, nor more than thirty-six semester hours for his course work in mathematics and his tutorial work combined.

(c) Work in Courses in Related Fields: A candidate must earn a sufficient number of semester hours of credit in courses in related fields to complete with the credit obtained in (a) and (b) the sixty semester hours required in the Honors Group.

A candidate's program must be approved by the Departmental Honors Adviser.

General Honors Examination: At the end of his Senior year each candidate reading for Honors in Mathematics must pass a comprehensive examination on his Honors program. This examination may be written, oral, or both. Faculty members from other departments and other institutions may be invited to participate in this examination.

NAVAL SCIENCE AND TACTICS

PROFESSOR CLAY, CAPTAIN, U. S. NAVY (RET.); ASSOCIATE PROFESSOR STUBBS, LIEUTENANT COMMANDER, U.S.N.R.; ASSISTANT PROFESSOR MUTH, LIEUTENANT (J.G.), U.S.N.R.; ASSISTANT PROFESSOR REDDING, LIEUTENANT (J.G.), U.S.N.

51-52. Navigation and Nautical Astronomy.—6 s.h. (w) STAFF

53-54. Seamanship.—6 s.h. (w) STAFF

56. Communication.—3 s.h. (w) STAFF

101-102. **Ordnance and Gunnery.—6 s.h.** (w) STAFF

103. **Naval Administration and Law.—3 s.h.** (w) STAFF

104. **Naval Machinery** (Engineers only).—3 s.h. (w) STAFF

151. **Tactics and Aviation.—3 s.h.** (w) STAFF

153. **Damage Control and Engineering.—3 s.h.** (w) STAFF

155. **Refresher Course.—3 s.h.** (w) STAFF

PHILOSOPHY

PROFESSOR WIDGERY, CHAIRMAN; ASSOCIATE PROFESSOR MORGAN, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR MCLARTY, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS GILBERT AND SMITH; AND ASSOCIATE PROFESSOR LEONARD

For courses marked with an asterisk there is a prerequisite of three hours of philosophy; admission otherwise by permission of the instructor. Sophomores may in general take courses prescribed for Juniors by permission of the instructor.

48. **Introduction to Logic and Scientific Method.—3 s.h.**
ASSOCIATE PROFESSOR LEONARD

95. **Introduction to Ethics.—3 s.h.**
PROFESSOR GILBERT AND ASSOCIATE PROFESSOR MORGAN

96. **The Development of American Philosophy.—3 s.h.**
ASSOCIATE PROFESSOR MORGAN

101. **Introduction to Philosophy.—3 s.h.**
PROFESSORS WIDGERY AND GILBERT, ASSISTANT PROFESSOR MCLARTY

103. **Logic.—3 s.h.** ASSOCIATE PROFESSOR LEONARD

104. **Scientific Methodology.—3 s.h.** ASSOCIATE PROFESSOR LEONARD

105. **Introduction to the History of Philosophy: Ancient and Medieval.—3 s.h.** ASSISTANT PROFESSOR MCLARTY

106. **Introduction to the History of Philosophy: Modern.—3 s.h.**
PROFESSOR WIDGERY AND ASSISTANT PROFESSOR MCLARTY

108. **Philosophical Ideas in Ancient Greek and Roman Culture.—3 s.h.** [Not offered in 1944-45] ASSISTANT PROFESSOR MCLARTY

114. **Seventeenth-Century Philosophy, with Special Reference to Spinoza.*—3 s.h.** PROFESSOR GILBERT

119. **Fundamentals of Christian Morality: An Introduction to Christian Ethics.—3 s.h.** ASSISTANT PROFESSOR MCLARTY

121. **The Philosophy of Plato.—3 s.h.** ASSISTANT PROFESSOR MCLARTY
[Not offered in 1944-45]

FOR SENIORS AND GRADUATES

201-202. **The Philosophy of Art.—6 s.h.**
[In alternate years—offered in 1944-45] PROFESSOR GILBERT

203. **The Philosophy of Conduct.*—3 s.h.** ASSOCIATE PROFESSOR MORGAN

205. **The Philosophy of History.**—3 s.h. PROFESSOR WIDGERY

208. **Political Philosophy.**—3 s.h. ASSOCIATE PROFESSOR MORGAN

209-210. **The Philosophy of Religion.**—6 s.h. PROFESSOR WIDGERY
[In alternate years—not offered in 1944-45]

211. **Philosophy of Civilization.**—3 s.h. ASSOCIATE PROFESSOR MORGAN
[Not offered in 1944-45]

213-214. **History of Aesthetics.**—6 s.h. PROFESSOR GILBERT
[In alternate years—not offered in 1944-45]

215. **Christian Ethics I.**—3 s.h. PROFESSOR SMITH

216. **Christian Ethics II.**—3 s.h. PROFESSOR SMITH

217. **The Philosophy of Aristotle.***—Prerequisite: course 105.
[Not offered in 1944-45] ASSISTANT PROFESSOR MCLARTY

224. **Contemporary Philosophy.**—3 s.h. PROFESSOR WIDGERY
[Not offered in 1944-45]

226. **The History of Ethics.**—3 s.h. ASSOCIATE PROFESSOR MORGAN
[In alternate years—not offered in 1944-45]

231-232. **Philosophy of Science.**—6 s.h. ASSOCIATE PROFESSOR LEONARD

236. **Oriental Philosophy I.**—3 s.h. PROFESSOR WIDGERY
[In alternate years—not offered in 1944-45]

238. **Oriental Philosophy II.**—3 s.h. PROFESSOR WIDGERY
[In alternate years—not offered in 1944-45]

241. **Logic.**—3 s.h. ASSOCIATE PROFESSOR LEONARD

242. **Scientific Methodology.**—3 s.h. ASSOCIATE PROFESSOR LEONARD

244. **Nietzsche and the Nineteenth Century.**—3 s.h.
ASSOCIATE PROFESSOR MORGAN
[In alternate years—not offered in 1944-45]

248. **Philosophy of Values.**—3 s.h.

RELATED COURSES IN OTHER DEPARTMENTS

Education 200. Introduction to the Philosophy of Education.

Greek 107-108. Plato.—Euripides.

Greek 209-210. Plato.

History 221-222. The Age of the Renaissance.

Mathematics 287. Mathematical Logic.

Mathematics 288. Foundations of Mathematics.

Physics 213-214. Contemporary Physics.

Political Science 223. Political Thought to the Seventeenth Century.

Political Science 224. Modern Political Theory.

Psychology 228. Psychology of Belief.

NAVY V-12 COURSES

PL1. Philosophy I.—A study of the philosophy of Plato and its relationship to Greek philosophy in general. 3 s.h.

PL2. Philosophy II.—Introduction to scientific philosophy. 3 s.h.

DEPARTMENTAL MAJOR

The student is required to take courses amounting to at least eighteen credit hours in the Department. Of these, six must be Philosophy 105-106, Introduction to the History of Philosophy; and six must be from courses in the 200 series. The student is advised to consult with an instructor in the Department concerning the courses most suitable to fit in his general plan of study.

PHYSICS

PROFESSOR NIELSEN, CHAIRMAN; PROFESSOR HATLEY, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR CARPENTER, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS EDWARDS, NORDHEIM, SPONER; ASSOCIATE PROFESSORS CONSTANT AND MOUZON; ASSISTANT PROFESSOR BONNER; DR. HEBB; MESSRS. BASS, EGERTON, GREENEWALD, KOZA, KNIGHT, MOORE, AND SELL; AND ASSISTANTS

The courses in physics are designated to meet the needs of three classes of students: (1) those desiring to specialize in physics with a view to work in teaching or investigation; (2) those intending to pursue the study of medicine, biology, or chemistry; (3) those looking forward to the study of engineering. The work of the first year is designed to lay a broad foundation for subsequent study.

An elementary knowledge of all the calculus and credit for 12 semester hours in physics are required in all courses numbered 200 and above.

1-2. Introductory Physics.—8 s.h. THE STAFF

17-18. Engineering Physics.—6 s.h.
ASSOCIATE PROFESSOR MOUZON AND ASSISTANT PROFESSOR BONNER

51-52. General Physics.—Prerequisite: Mathematics 7-8 or equivalent. 8 s.h. PROFESSOR HATLEY; ASSISTANT PROFESSORS CARPENTER AND BONNER

57-58. Engineering Physics.—6 s.h.
ASSOCIATE PROFESSOR MOUZON AND ASSISTANT PROFESSOR BONNER

59-60. Elementary Atomic Physics.—Prerequisite: a year course of college physics and the calculus completed or taken concurrently. 6 s.h.
PROFESSOR NIELSEN

61. Mechanics.—Prerequisite: a year course of college physics and the calculus completed or taken concurrently. 3. s.h. PROFESSOR NORDHEIM

62. Heat.—Prerequisite: a year course in college physics and the calculus completed or taken concurrently. 3 s.h. THE STAFF

65-66. Intermediate Physics.—Prerequisite: Physics 1-2 or its equivalent. 6 s.h. PROFESSOR EDWARDS

70. Elementary Electronics.—Prerequisite: a year in college physics. 4 s.h. ASSOCIATE PROFESSOR MOUZON

103. Electricity and Magnetism.—Prerequisite: a year course in college physics and the calculus. 4 s.h. ASSOCIATE PROFESSOR CONSTANT

104. Electrical Measurements.—3 s.h.
PROFESSOR NIELSEN AND ASSOCIATE PROFESSOR CONSTANT

106. **Photography.**—Prerequisite: a year course in college physics. **3 s.h.**
ASSISTANT PROFESSOR BONNER

108. **Physical Optics.**—Prerequisite: a year course in college physics and the calculus. **4 s.h.**
PROFESSOR SPONER

213-214. **Contemporary Physics.**—**6 s.h.** ASSOCIATE PROFESSOR CONSTANT

219. **Electron Tubes and Their Application.**—**4 s.h.**
ASSOCIATE PROFESSOR MOUZON

221-222. **Introduction to Theoretical Physics.**—**8 s.h.**
ASSOCIATE PROFESSOR CONSTANT

225-226. **Elementary Investigations.**—3-6 s.h. THE STAFF

NAVY V-12 COURSES

PH1 and PH2. General Physics.—May be substituted for Physics 1-2, Physics 17-18 and Physics 57-58, or Physics 51-52.

PH3-4. Mechanics and Heat.—May be substituted for Physics 61 and Physics 62. **7 s.h.**

PH5-6. Theory of Electrical Measurements.—May be substituted for Physics 103. **5 s.h.**

***PH7. Electricity and Magnetism I.**—**3 s.h.**

***PH10. Wave Motion and Sound.**—**5 s.h.**

***PH11. Analytical Mechanics and Thermodynamics.**—**4 s.h.**

PH12. Electron Physics.—May be substituted for Physics 213. **3 s.h.**

PH13. Optics.—May be substituted for Physics 108. **5 s.h.**

PH14-15. Electronics.—May be substituted for Physics 219. **7 s.h.**

DEPARTMENTAL MAJOR

A. For the A.B. degree:

Prerequisites: Physics 1-2 or equivalent, and Mathematics 1-2 or 7-8.

Major Requirements: 18 to 24 hours in courses approved by the Department. (Students who have a considerable number of hours in a closely allied field may, with the approval of the Department, count Physics 51-52 or Physics 57-58 as a major requirement.)

B. For the B.S. degree:

Prerequisites: Physics 1-2, Chemistry 1-2 and Mathematics 7-8 or equivalent.

Major Requirements: Not less than 24 hours in courses approved by the Department, not less than 6 hours of which must be in the 200 group.

DEPARTMENTAL HONORS PROGRAM

Prerequisites: Physics 1-2, 51-52, or 57-58 and 6 s.h. additional work in physics above the Freshman level; Mathematics 6 s.h. and Chemistry 1-2.

Honors Program: Physics 103, 108, 219, and 221-222; Mathematics 51-52 and 131; electives subject to the approval of the Departmental Honors Committee, 25 s.h. or enough to satisfy the requirements for graduation, of which at least 6 s.h. must be either a course in Geology or an advanced course in Chemistry, Botany, Zoology, or Mathematics.

In addition, the student will arrange with his adviser for the performance of a limited number of elementary physical investigations. This will consist of both readings and experimental work and in general will constitute a sur-

* PH7, PH10, PH11 may be substituted for Physics 221-222.

vey of the classical and modern aspects of physics for which 10 s.h. credit will be allowed.

At the end of both Junior and Senior years, the student will be given both an oral and a written examination in the field of physics.

POLITICAL SCIENCE

PROFESSOR WILSON, CHAIRMAN; PROFESSOR RANKIN, DIRECTOR OF UNDERGRADUATE STUDIES; PROFESSOR VON BECKERATH; ASSOCIATE PROFESSORS COLE AND SHIPMAN; ASSISTANT PROFESSORS GIBSON, HALLOWELL, LINEBARGER, SIMPSON, AND WALTER; MR. RICHARDS; MISS EVANS

21. Principles of Government.—3 s.h.
ASSISTANT PROFESSOR SIMPSON AND MR. RICHARDS

22. International Politics.—3 s.h. ASSISTANT PROFESSOR SIMPSON

61-62. American Government and Politics.—6 s.h.
PROFESSOR RANKIN; ASSISTANT PROFESSORS HALLOWELL, SIMPSON AND WALTER; MR. RICHARDS; MISS EVANS

Course 61-62 is ordinarily taken before any advanced course in political science. A student who has not had course 61-62 or equivalent work may take an advanced course in the Department with the approval of the instructor giving the advanced course.

111. Contemporary Problems in Far Eastern Politics.—3 s.h.
[Not offered in 1944-45] ASSISTANT PROFESSOR LINEBARGER

113. Colonialism and Nationalism in Southeastern Asia.—3 s.h.
[Not offered in 1944-45] ASSISTANT PROFESSOR LINEBARGER

123. American Political Theory.—3 s.h. ASSISTANT PROFESSOR HALLOWELL

125. American Political Parties and Practical Politics.—3 s.h.
ASSISTANT PROFESSOR SIMPSON

136. Major European Governments.—3 s.h.
ASSISTANT PROFESSOR HALLOWELL

141. Public Regulation.—3 s.h. ASSISTANT PROFESSOR WALTER

142. Government Regulation in Wartime.—3 s.h.
ASSISTANT PROFESSOR WALTER

151-152. Spanish-American Political Institutions.—6 s.h.
[Not offered in 1944-45] ASSISTANT PROFESSOR GIBSON

172. Government and Agriculture.—3 s.h. PROFESSOR VON BECKERATH

174. Politics and Economics.—3 s.h. PROFESSOR VON BECKERATH

207. American Constitutional Law and Theory.—3 s.h.
PROFESSOR WILSON

209. State and Local Government in the United States.—3 s.h.
PROFESSOR RANKIN

211. Political Institutions of the Far East.—3 s.h.
[Not offered in 1944-45] ASSISTANT PROFESSOR LINEBARGER

212. International Politics of the Far East.—3 s.h.
[Not offered in 1944-45] ASSISTANT PROFESSOR LINEBARGER

223. Political Thought to the Seventeenth Century.—3 s.h.
PROFESSOR WILSON

224. Modern Political Theory.—3 s.h. PROFESSOR WILSON

225-226. Comparative Government.—6 s.h.
ASSISTANT PROFESSOR HALLOWELL

227-228. International Law.—6 s.h. PROFESSOR WILSON

229. Recent and Contemporary Political Theory.—3 s.h.
ASSISTANT PROFESSOR HALLOWELL

230. American Political Institutions.—3 s.h. PROFESSOR RANKIN

241-242. The Administrative Process.—6 s.h.
ASSISTANT PROFESSOR WALTER

244. Administrative Law.—3 s.h. ASSISTANT PROFESSOR WALTER
[Not offered in 1944-45]

252. Spanish-American Constitutionalism.—3 s.h.
[Not offered in 1944-45] ASSISTANT PROFESSOR GIBSON

271. Sociopolitics and Capitalism.—3 s.h. PROFESSOR VON BECKERATH

291. Municipal Government.—3 s.h. PROFESSOR RANKIN

292. Municipal Administration.—3 s.h. PROFESSOR RANKIN

NAVY V-12 COURSES

POL1. Introduction to Politics.—May be substituted for Political Science 61. 3 s.h.

POL2. Comparative Government.—May be substituted for Political Science 62. 3 s.h.

POL3. Comparative Economic and Political Systems.—May be substituted for Political Science 136. 3 s.h.

DEPARTMENTAL MAJOR

Prerequisite: Political Science 61-62.

Major Requirements: Eighteen semester hours of work in the Department above Course 61-62, including at least nine semester hours in Senior-Graduate courses. Courses 21 and 22 may not be counted toward a major.

PSYCHOLOGY

PROFESSOR LUNDHOLM, CHAIRMAN; ASSISTANT PROFESSOR KEMP, DIRECTOR OF UNDERGRADUATE STUDIES; PROFESSOR RHINE; ASSOCIATE PROFESSORS ADAMS AND ZENER; VISITING ASSOCIATE PROFESSOR CATTELL; DR. KOCH

91. Introduction to Psychology.—3 s.h.
PROFESSOR LUNDHOLM; ASSOCIATE PROFESSORS ADAMS AND ZENER; VISITING ASSOCIATE PROFESSOR CATTELL; DR. KOCH

96. Applied Psychology.—3 s.h. ASSOCIATE PROFESSOR ZENER

103. Conation and Our Conscious Life.—3 s.h. PROFESSOR LUNDHOLM

104. Comparative Psychology.—3 s.h. ASSOCIATE PROFESSOR ADAMS
[Not offered in 1944-45]

106. Abnormal Psychology.—3 s.h. PROFESSOR LUNDHOLM

110. Applied Social Psychology.—3 s.h. DR. KOCH

111. Advanced General Psychology: Learning, Memory, Perception, Thinking.—3 s.h. ASSOCIATE PROFESSOR ZENER
[Not offered in 1944-45]

112. Advanced General Psychology:—Action, Motivation, Emotion.—3 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR ZENER

115. Psychology of Personality.—3 s.h. PROFESSOR RHINE

116. Psychology of Adjustment.—3 s.h. PROFESSOR RHINE

122. Psychology of Aesthetics.—3 s.h. PROFESSOR LUNDHOLM

128. Psychology of Belief.—3 s.h. PROFESSOR LUNDHOLM
[Not offered in 1944-45]

204. Motivation and Learning.—3 s.h. ASSOCIATE PROFESSOR ZENER
[Not offered in 1944-45]

206. Social Psychology.—3 s.h.

207. Psychology of Memory, Thinking, Perceiving.—3 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR ZENER

*209. Experimental Methods in Human Psychology.—4 s.h.
ASSOCIATE PROFESSOR ZENER

212. Physiological Psychology.—3 s.h. ASSISTANT PROFESSOR KEMP
[Not offered in 1944-45]

215. Developmental Psychology.—3 s.h. ASSOCIATE PROFESSOR ADAMS
[Not offered in 1944-45]

*223. Abnormal Psychology.—3 s.h. PROFESSOR LUNDHOLM

226. Psychology: Historical and Theoretical.—3 s.h.
ASSOCIATE PROFESSOR ZENER

231-232. Introduction to Research.—2 or 3 s.h. for one semester.
PROFESSORS LUNDHOLM AND RHINE; ASSOCIATE PROFESSORS ADAMS AND ZENER; VISITING ASSOCIATE PROFESSOR CATTELL; DR. KOCH

NAVY V-12 COURSES

PS1. Psychology I—General.—May be substituted for Psychology 91. 3 s.h.

PS2. Psychology II—Abnormal.—May be substituted for Psychology 106. 3 s.h.

PS3. Social Psychology.—May be substituted for Psychology 110. 3 s.h.

DEPARTMENTAL MAJOR

Prerequisites: Psychology 91 and Zoology 1 and 2 or equivalent in biology.

Major Requirements: Eighteen semester hours in psychology in addition to Psychology 91, at least six semester hours of which must be taken in Senior-Graduate courses.

DEPARTMENTAL HONORS PROGRAM

Departmental Honors in psychology are governed by the general rules covering all Honors programs.

* Limited registration. Admission only after consultation with instructor.

Prerequisite: The minimum requirement for admission to Honors in psychology is the completion of Psychology 91 with a grade of "B" or higher. Completion of Zoology 1-2 is strongly recommended.

Departmental Honors Program:

(a) Honors Readings.—Tutorial work with a member of the Department designated by the Honors Committee. This work shall be counted as the equivalent of three semester hours in the Junior and six semester hours in the Senior year.

(b) Courses in Psychology.—At least six courses in the Department in addition to the prerequisite (of which at least three must be of Senior-Graduate level).

(c) Courses in Related Fields.—To complete the total of sixty semester hours. All courses are to be chosen by consultation with the Departmental Honors Adviser.

(d) At the end of the Senior year.—A final written and oral examination on the fields of psychology chosen, and an experimental or critical paper on a selected problem.

RELIGION

PROFESSOR MYERS, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES; ASSOCIATE PROFESSOR PETRY, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS CANNON, ORMOND, AND SPENCE; ASSOCIATE PROFESSORS CLARK, OUTLER, AND STINESPRING; ASSISTANT PROFESSOR CRUM; AND MRS. SPENCE

1. The English Bible.—3 s.h.
ASSOCIATE PROFESSOR PETRY; PROFESSOR ORMOND; ASSISTANT PROFESSOR CRUM; AND MRS. SPENCE

2. The English Bible.—3 s.h.
ASSOCIATE PROFESSOR PETRY; PROFESSOR ORMOND; ASSISTANT PROFESSOR CRUM; AND MRS. SPENCE

51. The History of the Hebrew People.—3 s.h.
PROFESSORS MYERS AND SPENCE; ASSOCIATE PROFESSOR OUTLER; ASSISTANT PROFESSOR CRUM; AND MRS. SPENCE

52. New Testament Life and Literature.—3 s.h.
PROFESSORS MYERS AND SPENCE; ASSOCIATE PROFESSOR OUTLER; ASSISTANT PROFESSOR CRUM; AND MRS. SPENCE

101. The Social Teachings of the Prophets and Jesus.—3 s.h.
PROFESSOR ORMOND

102. The Christian Church in the Social Order.—3 s.h.
PROFESSOR ORMOND

103. The Prophets of the Old Testament.—3 s.h. PROFESSOR MYERS

104. The History and Religion of the Jews to the Roman Period.—3 s.h.
PROFESSOR MYERS

114. The Life and Teachings of Jesus.—3 s.h. PROFESSOR MYERS

117. The History and Thought of Judaism I.—3 s.h. DR. GOLDIN

118. The History and Thought of Judaism II.—3 s.h. DR. GOLDIN

151. Personality and Human Values.—3 s.h. PROFESSOR HART

163. Religious Education of Children.—3 s.h. MRS. SPENCE

167. Contemporary Religious Problems.—3 s.h. PROFESSOR SPENCE

168. Masterpieces of Great Religious Literature.—3 s.h. (Old number SR.270.) PROFESSOR SPENCE

169. Character Problems.—3 s.h. ASSISTANT PROFESSOR CRUM

170. Religion and the Family.—3 s.h. ASSISTANT PROFESSOR CRUM

181. The Nature and Early Development of Religion.—3 s.h. PROFESSOR CANNON

182. Living Religions of the World.—3 s.h. PROFESSOR CANNON

191. Fundamentals of Christian Morality: An Introduction to Christian Ethics.—3 s.h. DR. MCLARTY

193. A Study of Materials Suitable for Public School Courses in Religion and Ethics.—3 s.h. ASSISTANT PROFESSOR CRUM

201-202. First Hebrew.—6 s.h. ASSOCIATE PROFESSOR STINESPRING

211-212. Hellenistic Greek.—6 s.h. ASSOCIATE PROFESSOR CLARK

265. Religious Drama.—3 s.h. PROFESSOR SPENCE

268. Religious Drama Construction and Production.—3 s.h. PROFESSOR SPENCE

DEPARTMENTAL MAJOR

Prerequisite: Religion 1-2, or 51-52.

Major Requirements: A major in the Department of Religion consists of twenty-four semester hours of work, exclusive of courses primarily for Freshmen, eighteen semester hours of which shall be selected with the approval of the instructor under whose supervision the student does his major work.

DEPARTMENTAL HONORS PROGRAM

General Rules:

I. The Departmental Honors Program constitutes the work of the Honors student during the Junior and Senior years. This program shall be the equivalent of sixty semester hours of work.

II. The minimum amount of work that may be taken in the Department of Religion shall be the equivalent of twenty-four semester hours, and the maximum shall be the equivalent of thirty-six semester hours. Of this, the work done in the Honors tutorials shall count fifteen hours, six hours for the Junior year, six hours for the Senior year, and three hours for the comprehensive examination at the end of the Senior year.

III. The related work, which shall constitute at least two fifths of the Honors program, that is, the equivalent of twenty-four semester hours, must be distributed among not less than two departments, unless the departmental committee gives special permission for the student to take his related work in one department.

Prerequisite:

The minimum requirement for admission to Honors in Religion is the completion of a course in Religion during the Sophomore year on which the student makes at least a grade of "B."

Normal Program:

The normal program for the Honors student in the Junior year shall consist of the Honors tutorial, two courses in the Department of Religion, and two courses in related departments; in the Senior year the work shall consist of the Honors tutorial, one and one-half courses in Religion, and two in related departments.

General Honors Examinations:

Two comprehensive written examinations and a supplementary oral examination will be held at the end of the Senior year to test the student's knowledge of the special field in which he has done his Honors work.

ROMANCE LANGUAGES

PROFESSOR WEBB, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR DAVIS, SUPERVISOR OF FRESHMAN INSTRUCTION IN FRENCH AND SPANISH; PROFESSORS COWPER AND JORDAN; ASSOCIATE PROFESSORS LUNDEBERG AND WALTON; ASSISTANT PROFESSORS BRIDGERS, DOW, QUYNN, RAYMOND, REID, AND YOUNG; MRS. DILLINGHAM, MME. DOW; AND ASSISTANTS

FRENCH

1-2. Elementary French.—6 s.h.
PROFESSOR WEBB; ASSOCIATE PROFESSOR WALTON; ASSISTANT PROFESSOR DOW

3-4. French Prose.—Prerequisite: French 1 and 2, or two years of high school French. **6 s.h.**
PROFESSORS COWPER AND JORDAN; ASSOCIATE PROFESSOR WALTON; ASSISTANT PROFESSORS DOW AND RAYMOND

51-52. Introduction to French Literature.—Prerequisite: French 3 and 4 or equivalent. **6 s.h.**
PROFESSORS COWPER AND JORDAN; ASSOCIATE PROFESSOR WALTON; ASSISTANT PROFESSORS RAYMOND AND YOUNG

57-58. Introduction to French Literature.—Prerequisite: French 3 and 4 or equivalent. **6 s.h.** PROFESSOR WEBB

55. Exercises in Spoken French.—1 s.h. MME. DOW

56. Exercises in Spoken French.—1 s.h. MME. DOW

107. French Composition.—3 s.h.
PROFESSOR COWPER AND ASSISTANT PROFESSOR RAYMOND

108. The French Romantic Movement.—3 s.h. PROFESSOR COWPER

110. Poems of Victor Hugo.—3 s.h. ASSISTANT PROFESSOR DOW
[Not offered in 1944-45]

111. French Drama since 1850.—3 s.h. ASSISTANT PROFESSOR YOUNG

112. French Drama since 1850.—3 s.h. ASSISTANT PROFESSOR YOUNG

113. French Drama of the Seventeenth Century.—3 s.h.
ASSISTANT PROFESSOR RAYMOND

115. Masterpieces of Balzac.—3 s.h. ASSISTANT PROFESSOR BRIDGERS

116. Balzac and His Age.—3 s.h. ASSISTANT PROFESSOR BRIDGERS

127. **Advanced French Composition.**—Prerequisite: French 107 or equivalent. 3 s.h. MME. DOW

128. **Advanced French Composition.**—Prerequisite: French 107 or equivalent. 3 s.h. MME. DOW

129. **French Readings on Great Men and Events in the French Tradition.**—Prerequisite: French 51-52 or equivalent. 3 s.h. ASSOCIATE PROFESSOR WALTON

213. **French Classicism.**—3 s.h. ASSOCIATE PROFESSOR WALTON

214. **French Classicism.**—3 s.h. ASSOCIATE PROFESSOR WALTON

215-216. **The Modern French Novel.**—6 s.h. PROFESSOR JORDAN

217. **French Phonetics.**—Prerequisite: 3 s.h. from courses 107 or 127-128. 3 s.h. PROFESSOR WEBB

218. **Materials and Methods.**—Prerequisite: French 107. 3 s.h. PROFESSOR WEBB

219. **Old French.**—3 s.h. PROFESSOR COWPER

220. **Old French.**—3 s.h. PROFESSOR COWPER

227. **French Poetry since Théophile Gautier.**—3 s.h. [Not offered in 1944-45] ASSOCIATE PROFESSOR WALTON

232. **Rousseau and the Beginnings of Romanticism.**—3 s.h. [Not offered in 1944-45] PROFESSOR COWPER

233. **Main Currents of Modern French Literature.**—3 s.h. [Not offered in 1944-45] PROFESSOR WEBB

ITALIAN

181-182. **Italian.**—6 s.h. PROFESSOR WEBB

ROMANCE LITERATURE IN TRANSLATION

191. **Romance Literature of the Renaissance in Translation.**—3 s.h. ASSISTANT PROFESSOR BRIDGERS

192. **Romance Literature of the Renaissance in Translation.**—3 s.h. ASSISTANT PROFESSOR BRIDGERS

SPANISH

1-2. **Elementary Spanish.**—6 s.h. ASSISTANT PROFESSORS DAVIS, DOW, AND YOUNG; MRS. DILLINGHAM, AND MME. DOW

3-4. **Intermediate Spanish.**—Prerequisite: Spanish 1-2 or two years of high school Spanish. 6 s.h. PROFESSORS WEBB AND COWPER; ASSISTANT PROFESSORS DAVIS, DOW AND YOUNG; MRS. DILLINGHAM

65. **Introduction to Modern Spanish Literature.**—Prerequisite: Spanish 3-4 or equivalent. 3 s.h. ASSOCIATE PROFESSOR LUNDEBERG; ASSISTANT PROFESSORS BRIDGERS AND DAVIS

66. **Introduction to Spanish Literature of the Golden Age.**—Prerequisite: Spanish 65 or equivalent. 3 s.h. ASSOCIATE PROFESSOR LUNDEBERG; ASSISTANT PROFESSOR DAVIS

68. Introduction to Spanish-American Literature.—3 s.h.
ASSISTANT PROFESSOR BRIDGERS

Spanish 65-68 are the basic prerequisites to all higher courses.

71. Elementary Conversation.—Prerequisite: completion of Spanish 4 or equivalent and approval of instructor. 1 s.h. MRS. DILLINGHAM

72. Elementary Conversation.—1 s.h. MRS. DILLINGHAM

155. Survey of Spanish-American Literature.—Prerequisite: Spanish 65-66 or special permission. 3 s.h. ASSOCIATE PROFESSOR LUNDEBERG

156. Survey of Spanish-American Literature.—Prerequisite: Spanish 65-66 or special permission. 3 s.h. ASSOCIATE PROFESSOR LUNDEBERG

157-158. The Modern Spanish Theater.—Prerequisites: Spanish 65-66 or special permission. 6 s.h.

171. Intermediate Conversation.—Prerequisite: Spanish 71-72 or equivalent. 1 s.h. ASSOCIATE PROFESSOR LUNDEBERG

172. Intermediate Conversation.—1 s.h. ASSOCIATE PROFESSOR LUNDEBERG

253. Spanish Phonetics.—Prerequisites: Spanish 65-66. 3 s.h.
ASSOCIATE PROFESSOR LUNDEBERG

255-256. Studies in Spanish-American Literature.—6 s.h.
[Not offered in 1944-45] ASSISTANT PROFESSOR REID

258. Landmarks of Medieval and Renaissance Literature.—3 s.h.
[Not offered in 1944-45] ASSISTANT PROFESSOR DAVIS

260. Advanced Syntax and Composition.—Prerequisite: Spanish 65-66. 3 s.h. ASSOCIATE PROFESSOR LUNDEBERG

261-262. Modern Spanish Novel.—Prerequisite: 6 s.h. from courses 155 to 158 inclusive, or 65-66 with permission. 6 s.h.
ASSOCIATE PROFESSOR LUNDEBERG

265. Golden Age Literature: Cervantes.—Prerequisite: 6 s.h. from course 155 to 158 inclusive, or 65-66 with permission. 3 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR LUNDEBERG

266. Golden Age Literature: The Don Juan Theme.—Prerequisite: 6 s.h. from courses 155 to 158 inclusive, or 65-66 with permission. 3 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR LUNDEBERG

NAVY V-12 COURSES

Foreign Language 1-2 may be substituted for a first-year language.

Foreign Language 3-4 may be substituted for a second-year language.

Foreign Language 5, 6, and 7 may be substituted for third-year courses.

DEPARTMENTAL MAJOR

Prerequisites: French 1-2, 3-4, or equivalent, for French. Spanish 1-2, 3-4, or equivalent, for Spanish.

Major Requirements: In French, twenty-four semester hours of work must be completed in courses above the Freshman level, and must include: (a) six semester hours from the group 107, 127-128, 217; (b) six semester hours of literature in courses numbered 213 to 233.

In Spanish, twenty-four semester hours must be completed as follows: twelve semester hours in the courses 65-68, 155-156, 157-158; twelve semester hours from the group 253-266.

Students desiring the recommendation of the Department for the teaching of French will take, in addition, course 218.

DEPARTMENTAL HONORS PROGRAM

Prerequisites: Completion of 51-52 or 57-58 by the end of the Sophomore year in a manner satisfactory to the Departmental Committee.

Honors work in French includes:

(a) Training in the use of written and oral French; composition, résumé, and literary commentary in French. 3 s.h. each semester of Junior and Senior years, total 12 s.h.

(b) Readings in French literature.
  (1) Survey of chief authors. 3 s.h. each semester of 12 s.h.
  (2) Genre studies beginning with the modern novel. 3 s.h. each semester or 12 s.h.

(c) Comprehensive examination.

(d) Related work: 24 s.h.

SOCIOLOGY AND ANTHROPOLOGY

PROFESSOR ELLWOOD, CHAIRMAN; PROFESSOR JENSEN, DIRECTOR OF UNDERGRADUATE STUDIES; PROFESSOR HART; ASSOCIATE PROFESSORS GILLIN AND THOMPSON

91-92. General Sociology.—6 s.h.
PROFESSOR JENSEN AND ASSOCIATE PROFESSOR GILLIN

101. General Sociology.—5 s.h.
[Not offered in 1944-45]

102. General Sociology—5 s.h.
[Not offered in 1944-45]

109. Sociology of the South.—Prerequisite: course 91-92, 101 or 131-132. 3 s.h. ASSOCIATE PROFESSOR THOMPSON

111. Introduction to Child Welfare.—Prerequisite: course 91-92, 101 or 131-132. 3 s.h. PROFESSOR JENSEN

114. Race Relations.—Prerequisite: course 91-92, 101 or 131-132. 3 s.h.
ASSOCIATE PROFESSOR THOMPSON

122. Personality and Culture.—Prerequisite: Sociology 91-92, 101 or 131-132. 3 s.h. PROFESSOR HART

131. General Anthropology.—3 s.h. ASSOCIATE PROFESSOR GILLIN

132. Cultural Anthropology.—Prerequisite: course 91-92, 101 or 131. 3 s.h.
ASSOCIATE PROFESSOR GILLIN

205. Social Pathology.—Prerequisite: course 91-92, 101, or 131-132. 3 s.h.
PROFESSOR JENSEN

206. Criminology.—Prerequisite: course 91-92, 101, or 131-132. 3 s.h.
PROFESOR JENSEN

212. Child Welfare.—Prerequisite: course 91-92, 101, or 131-132. 3 s.h.
[Offered in Summer Session, 1944] PROFESSOR JENSEN

213. **Constructive Social Policies.**—Prerequisite: course 91-92, 101, or 131-132. 2 s.h. PROFESSOR JENSEN
[Not offered in 1944-45]

215. **Rural Sociology.**—Prerequisite: course 91-92, 101, or 131-132. 3 s.h. ASSOCIATE PROFESSOR THOMPSON

216. **Urban Sociology.**—Prerequisite: course 91-92, 101, or 131-132. 3 s.h. ASSOCIATE PROFESSOR THOMPSON

217. **Race and Culture.**—Prerequisite: course 91-92, 101, or 131-132. 3 s.h. ASSOCIATE PROFESSOR THOMPSON

225. **Statistical Methods in Sociology.**—Prerequisite: course 91-92, 101, or 131-132. 3 s.h. PROFESSOR HART

227. **Emigration and Immigration.**—Prerequisite: course 91-92, 101, or 131-132. 3 s.h. PROFESSOR JENSEN
[Not offered in 1944-45]

236. **Social Ethics.**—3 s.h. PROFESSOR HART

237. **Indians of North America.**—Prerequisite: course 131. 3 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR GILLIN

238. **Anthropological Backgrounds of Latin America.**—Prerequisite: course 131. 3 s.h. ASSOCIATE PROFESSOR GILLIN

239. **Acculturation and Cultural Synthesis.**—3 s.h.
ASSOCIATE PROFESSOR GILLIN

240. **The Peoples of Africa.**—Prerequisite: course 131. 3 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR GILLIN

242. **Marriage and the Family.**—3 s.h. PROFESSOR HART
[First semester, 1944-45]

251. **Special Problems in Social Pathology.**—Prerequisite: course 205 or its equivalent. 1 to 3 s.h. PROFESSOR JENSEN

252. **Education and Social Control.**—Prerequisite: course 91-92, 101 or 131-132. 2 s.h.
[Not offered in 1944-45]

181. **Public Opinion.**—3 s.h. PROFESSOR JENSEN
[Not offered in 1944-45]

299. **Marriage and Family Counseling.**—Prerequisite: course 91-92, 101, or 131-132. 2 s.h. PROFESSOR HART

NAVY V-12 COURSES

S1. **Sociology I.**—Anthropology. 3 s.h.

S2. **Sociology II.**—May be substituted for Sociology 91. 3 s.h.

DEPARTMENTAL MAJOR

Students desiring to take a major in sociology are required to complete course 91-92 or 101 or 102 or 131-132 and twelve additional hours in the Department, at least six of which must be from courses numbered 200 or over.

ZOOLOGY

PROFESSOR GRAY, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR BOOKHOUT, SUPERVISOR OF FRESHMAN INSTRUCTION; ASSISTANT PROFESSOR JEFFERS, SUPERVISOR OF FRESHMAN INSTRUCTION (WOMAN'S COLLEGE); PROFESSORS HARGITT, PEARSE; ASSISTANT PROFESSOR JOHNSON; DRS. MAGALHAES AND WHARTON; AND ASSISTANTS

UNDERGRADUATE COURSES

1. **General Zoology.**—4 s.h.
ASSISTANT PROFESSOR JEFFERS; DRS. MAGALHAES, WHARTON; AND ASSISTANTS

2. **Animal Biology.**—Prerequisite: Zoology 1. 4 s.h.
ASSISTANT PROFESSOR JEFFERS; DR. MAGALHAES; AND ASSISTANTS

53. **Comparative Vertebrate Anatomy.**—Prerequisites: Zoology 1 and 2. 4 s.h.
PROFESSOR GRAY; DR. WHARTON; ASSISTANT PROFESSORS BOOKHOUT AND JOHNSON

92. **General Embryology.**—Prerequisite: Zoology 53. 4 s.h.
ASSISTANT PROFESSOR JOHNSON

109. **Evolution.**—Prerequisite: Two years of Zoology. 2 s.h.
ASSISTANT PROFESSOR JOHNSON

110. **Introduction to Genetics.**—Prerequisite: One year of Zoology. 2 s.h.
ASSISTANT PROFESSOR JOHNSON

151. **Comparative Physiology.**—Prerequisite: Zoology 53. 4 s.h.
DR. MAGALHAES

156. **Vertebrate Histology.**—Prerequisite: Zoology 53. 4 s.h.
PROFESSOR HARGITT

161. **Animal Parasites.**—Prerequisite: one year of Zoology. 4 s.h.
PROFESSOR PEARSE

FOR SENIORS AND GRADUATES

204. **Advanced Parasitology.**—Prerequisite: Zoology 161. 4 s.h.
PROFESSOR PEARSE

219-220. **Special Problems.**—Not more than 4 s.h. STAFF

222. **Entomology.**—Prerequisite: one year of Zoology. 4 s.h.
PROFESSOR GRAY

224. **Vertebrate Zoology.**—Prerequisite: Zoology 53. 4 s.h.
PROFESSOR GRAY

229. **Endocrinology.**—Prerequisites: Zoology 53 and 92. 4 s.h.
ASSISTANT PROFESSOR JEFFERS

256. **Seminar: Current Developments in Physiological Zoology.**—Prerequisite: Zoology 151. 2 s.h.

274. **Invertebrate Zoology.**—Prerequisites: Zoology 1 and 2. 4 s.h.
ASSISTANT PROFESSOR BOOKHOUT

276. **Protozoology.**—Prerequisites: Zoology 1 and 2. 4 s.h.
ASSISTANT PROFESSOR BOOKHOUT

RELATED COURSES, ONE OF WHICH MAY BE COUNTED TOWARD A MAJOR IN ZOOLOGY

Botany 101. Principles of Heredity.—3 or 4 s.h. (w) ASSISTANT PROFESSOR PERRY

Botany 103. General Bacteriology.—4 s.h. (w & e) PROFESSOR WOLF

Botany 202. Genetics.—4 s.h. (w) ASSISTANT PROFESSOR PERRY

NAVY V-12 COURSES

***B1 and B2. Biology I and Biology II.**—Two lecture-recitation periods and two laboratory periods per week. 8 s.h.

B3. Biology III. General Embryology.—May be substituted for Zoology 91. 5 s.h.

B4. Biology IV. Comparative Anatomy.—May be substituted for Zoology 53. 5 s.h.

DEPARTMENTAL MAJOR

Prerequisites: Zoology 1 and 2.

Major Requirements: Twenty-four semester hours including courses 53, 92, 151. The remaining twelve hours may be from any other courses for which the student is eligible.

DEPARTMENTAL HONORS PROGRAM

For admission to candidacy for Honors in zoology a student is expected to have completed zoology courses 1, 2, 53, 92 and not less than eight semester hours of chemistry.

Honors work consists of regular courses and independent study; the program, however, will not be the same for all students. Zoology 151 is required of all zoology majors; the number and nature of other courses to be taken in zoology and in related subjects will depend upon the needs and interests of the student. The usual number of semester courses will be four to six in zoology and six in other subjects in the Natural Science Group.

In addition to regular courses each student shall read in such fields as history of biology and zoological theories, or in special fields, and shall undertake a special research problem under the direction of some member of the Staff whom the student may select. The student may be asked to prepare written reports on his readings and must present a written report on his research problem. Readings and problem count for nine to twelve semester hours.

At the end of the Junior year an examination will be given to test the student's ability to correlate material and to determine his fitness to continue in the Honors Group. At the end of Senior year a special comprehensive examination covering the entire field of study must be passed.

* B1 and B2 may be substituted for Botany 1-2 or Zoology 1-2.

THE COLLEGE OF ENGINEERING

ADMISSION

Admission to the College of Engineering of Duke University is on a selective basis, dependent upon the ability, attainments, and character of the applicant. No student is admitted until the Council on Admissions has received for him a scholastic record from school or college, a certificate of vaccination and of good health, and satisfactory evidence of good character and ability. Prospective students and relatives are invited to visit the University and the College of Engineering in particular. This would be advantageous to the applicant since it would enable him to acquaint himself with the facilities of the University, and to discuss possible courses of study.

Certain days are announced in the University Calendar each year for the registration, classification, and sectioning of students. Those students who are admitted later than the dates announced must pay to the Treasurer $5.00 additional for the privilege of matriculating.

An applicant for admission to the Freshman Class in engineering must have completed at least fifteen units of preparatory work, partly in required and partly in elective subjects. A unit represents a year of work in a subject in an accredited secondary school, provided the work done in that subject is approximately one fourth of the annual amount of work regularly required in the school.

The subjects in which this credit may be offered and the maximum amount of credit acceptable in each subject are given in the following table:

	UNITS		UNITS
English	4	Botany	1
Latin	4	Zoology	1
Greek	3	General Biology	1
German	3	Physical Geography	1
French	3	General Science	1
Spanish	3	Agriculture	2
Mathematics	4	Mechanical Drawing	2
History and Civics	4	Woodwork, Forging, and Machine Work	2
Physics	1	Household Economics	2
Chemistry	1	Commercial Subjects	3

For a detailed explanation of the units in the table above, see the definitions as set forth by the Southern Association of Colleges and Secondary Schools and other regional associations.

ADMISSION BY CERTIFICATE

Applicants able to submit certificates of proficiency from accredited schools in subjects accepted for admission to the Freshman Class will be

admitted without examination. These certificates must be properly made out on the regular blanks furnished by the University, signed by the principal of the school from which the applicant comes, and presented before or at the opening of the academic year. The applicant must have completed the course of the school from which he comes.

At least nine and one half of the fifteen units required for admission must come from the following:

Required Units

English	3 units
A Foreign Language	2 units
*Science	1 unit
History	1 unit
†Algebra	1½ or 2 units
Plane Geometry	1 unit

Elective Units

In addition to the above required units, sufficient elective units must be offered to make a total of fifteen. It is recommended that these electives be chosen from the following list:

Algebra	½ unit
Solid Geometry	½ unit
Trigonometry	½ unit
‡German or French or Latin or Spanish or Greek	1 to 4 units
History or Civics (not the required unit)	1 to 3 units
Physics or Chemistry or Biology (not the required unit)	1 to 3 units

ADMISSION BY EXAMINATION

Students who present fifteen units for admission from schools not accredited by the University, and students who present the proper units but whose grades are not acceptable, are required to validate their units by entrance examinations in English and in mathematics and such other tests as the University may prescribe, including the test required by the North Carolina College Conference.

Students who have not the required units in English or in mathematics but who are otherwise acceptable must, before admission, clear this deficiency by entrance examinations.

ADMISSION TO ADVANCED STANDING

Students may be admitted to advanced standing from other approved institutions under the following conditions: all applicants must have fulfilled the equivalent of the requirements for admission to the Freshman

* Wherever possible, physics or chemistry should be offered for this requirement.
† Examination required to validate offering.
‡ One elective unit in any of the above languages will be accepted for admission provided the language requirement has been satisfied without it. As many as four units will be accepted in any one of these languages.

Class, must present official certificates of all work done in other institutions, and have honorable dismissal from the institutions they previously attended.

Applicants for advanced standing should present, so far as possible, subjects corresponding to those required at Duke University. Students admitted to advanced standing may not during their first semester elect more than the minimum number of hours required of the class which they enter except by permission of the Dean. Further, in addition to other requirements, a minimum of one full year in residence at Duke University with the satisfactory completion of at least thirty semester hours of work approved for Seniors, with an average grade of "C," is required of all candidates for the Bachelor's degree.

Students who have transferred from other colleges must, in order to make their provisional classification final, pass during their first year of residence not less than the equivalent of four year-courses with an average grade of "C" or higher.

The date for the registration and classification of students with advanced standing from other institutions is announced in the University Calendar. Students who are admitted later than this date are required to pay to the Treasurer $5.00 additional for the privilege of matriculating.

FRESHMAN WEEK

The week immediately preceding the opening of College is set aside for the induction of Freshmen. During this period health examinations, psychological tests, and placement tests are given in English and mathematics. Sectioning in these two subjects is based on the grades made on the placement tests. The Freshmen are divided into groups for instruction in the use of the Library, in the regulations of the student body, and in all matters pertaining to the adjustment of the individual to a new environment. Attendance upon these exercises is required of all Freshmen.

SPECIAL STUDENTS

Students of mature age not fully prepared to enter the Freshman Class may be admitted as special students and allowed to enroll for such work as they are prepared to carry. Further, they are required to take fifteen hours of classwork a week.

FEES AND EXPENSES

Information concerning fees and expenses and room accommodations applicable to the College of Engineering is given, along with similar information for Trinity College and the Woman's College, elsewhere in the catalogue, under Fees and Expenses.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL, ELECTRICAL, OR MECHANICAL ENGINEERING

GENERAL STATEMENT

The studies for the degree of Bachelor of Science in Civil, Electrical, or Mechanical Engineering are designed for students who are preparing for civil, electrical, and mechanical or aeronautical engineering as a profession and lead to the following degrees: B.S. in C.E., B.S. in E.E., and B.S. in M.E. All curricula of the College of Engineering are fully accredited by the Engineers' Council for Professional Development, recognized accrediting agency in the field of engineering education.

Each of these degrees requires one hundred and thirty-eight semester hours of work of which one hundred and twenty must be completed with an average grade of "C." Six semester hours of electives must be taken in the Department of Economics or Political Science. If a foreign language is elected, it must be taken two years unless a student has sufficient entrance credits to enable him to pursue a more advanced course.

Prospective students should note that immediately after the final examinations in May or June a three-weeks course in surveying is given under the direction of the Summer Session. This course is required of all civil engineering students at the end of their Freshman year and is required of all other engineering students before graduation.

Courses described in the Navy V-12 Bulletin No. 101 may be offered in place of certain required courses outlined in this bulletin for the civil, electrical, and mechanical curricula.

GROUPS OF STUDIES FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL, ELECTRICAL, OR MECHANICAL ENGINEERING

GROUP I

Civil Engineering

Freshman Year

FIRST SEMESTER	S.H.	SECOND SEMESTER	S.H.
Mathematics 9	5	Mathematics 10	5
Chemistry 1	4	Chemistry 2	4
English 1	3	English 2	3
Physics 17	3	Physics 18	3
Drawing G.E. 1	2	Drawing G.E. 2	2
Physical Education		Physical Education	
	17		17

Three weeks of Surveying S60 in summer. Credit 3 semester hours.

Sophomore Year

Mathematics 59	4	Mathematics 60	4
Physics 57	3	Physics 58	3
Economics 51	3	Economics 52	3
Statics G.E. 57	3	Kinetics G.E. 58	3
Surveying 61	2	Steam Engineering M.E. 55	2
Route Surveying 63	2	Route Surveying 64	2
Physical Education		Physical Education	
	17		17

Junior Year

Strength of Materials 107	3	Hydraulics 128	3
Structures 131	4	Structures 132	4
Highways 115	3	Materials 118	3
Electrical Engineering 153	3	Electrical Engineering 154	3
Elective	3	Elective	3
	16		16

Senior Year

Sanitary Engineering 123	4	Sanitary Engineering 124	3
Concrete 133	3	Concrete 134	3
Railroads 119	3	Astronomy-Navigation 112	3
Heat Power M.E. 103	3	Heat Power M. E. 104	3
Mechanical Engineering Lab. 115	1	Mech. Engg. Lab. 116	1
Elective	3	Civil Engineering Project 143	3
	17	Elective	2
			18

GROUP II

ELECTRICAL ENGINEERING

Freshman Year

FIRST SEMESTER	S.H.	SECOND SEMESTER	S.H.
Mathematics 9	5	Mathematics 10	5
Chemistry 1	4	Chemistry 2	4
English 1	3	English 2	3
Physics 17	3	Physics 18	3
Drawing 1	2	Drawing 2	2
Physical Education		Physical Education	
	17		17

Three weeks of Surveying S60 in summer. Credit 3 semester hours.

Sophomore Year

Mathematics 59	4	Mathematics 60	4
Physics 57	3	Physics 58	3
Statics 57	3	Kinetics-Mechanism 52	4
Electrical Engineering 51	3	Electrical Engineering 52	3
Economics 51	3	Economics 52	3
Steam Engineering 55	2	Physical Education	
Physical Education			17
	18		

Junior Year

Theory of D. C. Circuits 151	4	Theory of A. C. Circuits 152	3
Hydraulics 128	3	Strength of Materials 107-109	4
Electrical Circuits Lab. 161	1	Electrical Circuits Lab. 162	1
Heat Power Engineering 103	3	Heat Power Engineering 104	3
Differential Equations 131	3	Electrical Measurements 104	3
Mechanical Engineering Laboratory 115	1	Mechanical Engineering Laboratory 116	1
	15		15

Senior Year

A. C. Machinery 257	3	A. C. Machinery 258	3
Electric Power Trans. 159	3	Electric Power Stations 158	2
Communication 261	3	Communication 262	4
D. C. Machinery 155	2	Seminar 166	1
Electrical Machinery Laboratory 163	1	Electrical Machinery Laboratory 164	1
Seminar 165	1	Electives	6
Electives	6		17
	19		

In conformance with the wishes of the United States armed services, during wartime the curriculum in electrical engineering will emphasize particularly those aspects of theory and practice which are encountered principally in the field of electrical communications. During 1944-1945 the Senior curriculum has been modified to include intensive special classroom and laboratory training in radio, with particular reference to ultra-high frequency techniques.

GROUP III

MECHANICAL ENGINEERING

Freshman Year

FIRST SEMESTER	S.H.	SECOND SEMESTER	S.H.
Mathematics 9	5	Mathematics 10	5
Chemistry 1	4	Chemistry 2	4
English 1	3	English 2	3
Physics 17	3	Physics 18	3
Drawing 1	2	Drawing 2	2
Physical Education		Physical Education	
	17		17

Three weeks of Surveying S60 in summer. Credit 3 semester hours.

Sophomore Year

Mathematics 59	4	Mathematics 60	4
Physics 57	3	Physics 58	3
Statics, G.E. 57	3	Kinetics-Mechanism 54	5
Const. Processes 51	3	Steam Engineering 55	2
Economics 51	3	Economics 52	3
Physical Education		Physical Education	
	16		17

Junior Year

Fluid Mechanics 105	3	Machine Design 150	3
Str. of Materials 107-109	4	Aeronautics 108	3
Electrical Engg. 153	3	Electrical Engg. 154	3
Thermodynamics 101	3	Thermodynamics 102	3
M.E. Lab. 113	1	M.E. Lab. 114	2
Elective	3	Elective	3
	17		17

Senior Year

Mechanical Option			
Machine Design 151	3	Industrial Engg. 158	3
Int. Comb. Eng. 155	3	Power Plants 162	3
Heating and Air Cond. 153	3	Refrigeration 154	3
M.E. Lab. 159	2	M.E. Lab. 160	2
Seminar 199	1	Seminar 200	1
Electives	5	Electives	5
	17		17

Senior Year

Aeronautics Option			
Machine Design 151	3	Industrial Engg. 158	3
Int. Comb. Eng. 155	3	Airplane Design 172	3
Airplane Design 171	3	Airplane Engines 156	3
Aerodynamics 173	2	Aerodynamics 174	2
M.E. Lab. 159	2	Aeronautics Lab. 176	2
Seminar 199	1	Seminar 200	1
Elective	3	Elective	3
	17		17

Note: The Aeronautics Option for Senior Mechanical Engineering students will not be offered while the Navy College Training Program is in operation.

COURSES OF INSTRUCTION, COLLEGE OF ENGINEERING

This is a condensed description of courses. For a full description, see the *Bulletin of the College of Engineering.*

PROFESSOR HALL, DEAN; PROFESSOR BIRD, CHAIRMAN CIVIL ENGINEERING; PROFESSOR SEELEY, CHAIRMAN ELECTRICAL ENGINEERING; PROFESSOR WILBUR, CHAIRMAN MECHANICAL ENGINEERING; ASSISTANT PROFESSORS LOUISE HALL, HINTON, JACOBS, LEWIS, MEIER, AND REED; MESSRS. BAKER, COOKE, HACKNEY, HAINES, JONES, KRAYBILL, OGLESBY, PATTINSON, THEISS, VAIL, AND WILLIAMS

GENERAL ENGINEERING

1-2. **Engineering Drawing.**—4 s.h. STAFF

5. **Descriptive Geometry.**—2 s.h. STAFF

51-52. **Technical Drawing.**—6 s.h. ASSISTANT PROFESSOR L. HALL

57. **Statics.**—Prerequisites: courses G.E. 1-2, Mathematics 9 and 10. 3 s.h. STAFF

58. **Kinetics.**—Prerequisite: courses G.E. 57, and Mathematics 59. 3 s.h. STAFF

107. **Strength of Materials.**—Prerequisite: course 57. 3 s.h. STAFF

109. **Strength of Materials Laboratory.**—1 s.h. STAFF

128. **Hydraulics.**—Prerequisite: course 57. 3 s.h. STAFF

151-152. **Elements of Cartography.**—6 s.h. ASSISTANT PROFESSOR L. HALL

CIVIL ENGINEERING

PROFESSORS BIRD AND HALL; ASSISTANT PROFESSORS JACOBS; MR. WILLIAMS

S60. **Plane Surveying.**—Prerequisite: G.E. 1 and trigonometry. 3 s.h. STAFF

61. **Higher Surveying.**—Prerequisite: course S60. 2 s.h. MR. WILLIAMS

63-64. **Route Surveying.**—Prerequisite: course S60. 4 s.h. STAFF

70. **Civil Engineering Drawing.**—Prerequisite: course G.E. 1-2. 2 s.h. PROFESSOR BIRD

112. Practical Astronomy and Navigation.—Prerequisite: S60 or with the consent of the instructor. 3 s.h. PROFESSOR BIRD

115. Highway Engineering.—3 s.h. PROFESSOR HALL

118. Materials of Engineering.—Prerequisite: course G.E. 107 or concurrent. 3 s.h. MR. WILLIAMS

119. Railroad Engineering.—Prerequisite: course 63-64. 3 s.h. PROFESSOR BIRD

120. Railroad Engineering.—Prerequisite: course 63-64. 2 s.h. PROFESSOR BIRD

123-124. Sanitary Engineering.—Prerequisite: course G.E. 128. 7 s.h. PROFESSOR HALL

131. Steel Structures—Stresses.—Prerequisite: course G.E. 57. 4 s.h. PROFESSOR BIRD

132. Steel Structures—Design.—Prerequisites: courses G.E. 107 and 131. 4 s.h. PROFESSOR BIRD

133. Reinforced Concrete.—Prerequisite: course G.E. 107. 3 s.h. PROFESSOR BIRD

134. Advanced Reinforced Concrete.—Prerequisites: courses 133 and 135. 3 s.h. PROFESSOR BIRD

135. Soils and Foundations.—Prerequisite: course G.E. 107. 3 s.h. ASSISTANT PROFESSOR JACOBS

137-138. Seminar.—2 s.h. STAFF

143-144. Projects in Civil Engineering.—3-6 s.h. STAFF

240. Indeterminate Structures.—Prerequisites: course 131 and ability to read French or German. 3 s.h. PROFESSOR BIRD

ELECTRICAL ENGINEERING

PROFESSOR SEELEY; ASSISTANT PROFESSOR MEIER; MESSRS. KRAYBILL AND VAIL

51-52. Survey of Electrical Engineering.—Prerequisites: Freshman mathematics and concurrent physics. 6 s.h. ASSISTANT PROFESSOR MEIER

151. Theory of Direct Current Circuits.—Prerequisites: course 51-52, Physics 57-58, Mathematics 59, 60. 4 s.h. MR. VAIL

152. Theory of Alternate Current Circuits.—Prerequisites: course 151, Mathematics 131. 3 s.h. MR. VAIL

153-154. Principles of Electrical Engineering.—Prerequisite: Physics 57-58. 6 s.h. MESSRS. KRAYBILL AND VAIL

155. **Direct Current Machinery.**—Prerequisites: courses 151, 161-162. 2 s.h. ASSISTANT PROFESSOR MEIER

156. **Electric Transportation.**—Prerequisites: courses 151, 152, 161-162, or 153-154. 3 s.h. MR. KRAYBILL

157. **Industrial Applications of Electrical Equipment.**—Prerequisite: course 153-154. 3 s.h. ASSISTANT PROFESSOR MEIER
[Not offered in 1944-45]

158. **Electric-Power Stations.**—Prerequisites: courses 151, 152, and M.E. 103-104. 2 s.h. MR. VAIL

159. **Electric-Power Transmission.**—Prerequisites: courses 151, 152. 3 s.h. PROFESSOR SEELEY

161-162. **Electrical Circuits Laboratory.**—2 s.h. MR. VAIL

163-164. **Electrical Machinery Laboratory.**—2 s.h. ASSISTANT PROFESSOR MEIER

165-166. **Electrical Engineering Seminar.**—2 s.h. MR. VAIL AND STAFF

173-174. **Projects in Electrical Engineering.**—3-6 s.h. PROFESSOR SEELEY AND STAFF

202. **Fundamentals of Radio.**—Prerequisite: course 153-154. 3 s.h. MR. KRAYBILL

257-258. **Alternating Current Machinery.**—Prerequisites: courses 152, 155. 6 s.h. ASSISTANT PROFESSOR MEIER

261. **Communication Engineering, Audio Frequency.**—Prerequisites: courses 151, 152, Mathematics 131. 3 s.h. PROFESSOR SEELEY, MR. KRAYBILL

262. **Communication Engineering, Radio Frequency.**—Prerequisite: course 261. 4 s.h. PROFESSOR SEELEY, MR. KRAYBILL

263-264. **Mathematical Analysis of Electrical Circuits.**—Prerequisites: courses 151, 152 and Mathematics 131. 6 s.h. PROFESSOR SEELEY

MECHANICAL ENGINEERING

PROFESSOR WILBUR; ASSISTANT PROFESSORS HINTON, LEWIS, AND REED; MESSRS. COOKE, PATTINSON, AND THEISS

51. **Constructive Processes.**—Prerequisite: Chemistry 2. 3 s.h. MESSRS. COOKE, PATTINSON, AND THEISS

52. **Kinetics-Mechanism.**—Prerequisites: G.E. 2, G.E. 57, Mathematics 59. Mathematics 60 concurrently. 4 s.h. ASSISTANT PROFESSORS HINTON, REED; AND MESSRS. PATTINSON AND THEISS

54. **Kinetics-Mechanism.**—Prerequisites: G.E. 2, G.E. 57, and Mathematics 59, Mathematics 60 concurrently. 5 s.h. ASSISTANT PROFESSORS HINTON, REED; AND MESSRS. PATTINSON AND THEISS

55. **Steam Engineering.**—Prerequisite: Physics 18. 2 s.h. PROFESSOR WILBUR; MESSRS. COOKE AND PATTINSON

101-102. **Engineering Thermodynamics.**—Prerequisites: M.E. 55, Physics 58, and Math. 60. 6 s.h.
PROFESSOR WILBUR AND ASSISTANT PROFESSOR HINTON

103-104. **Heat Power Engineering.**—Prerequisites: Mathematics 60, M.E. 55. 6 s.h. ASSISTANT PROFESSOR REED

105. **Fluid Mechanics.**—Prerequisite: M.E. 54. 3 s.h.
PROFESSOR WILBUR AND ASSISTANT PROFESSOR HINTON

108. **Aeronautics.**—Prerequisite: M. E. 105. 3 s.h.
MESSRS. PATTINSON AND THEISS

113-114. **Junior Mechanical Engineering Laboratory.**—Prerequisite: M.E. 55. M.E. 101-102 concurrently. 3 s.h.
ASSISTANT PROFESSOR HINTON; MESSRS. COOKE, PATTINSON, AND THEISS

115-116. **Junior Mechanical Engineering Laboratory.**—2 s.h.
ASSISTANT PROFESSOR HINTON AND MR. PATTINSON

150-151. **Machine Design.**—Prerequisites: G.E. 107, M.E. 51, M.E. 54. 6 s.h. ASSISTANT PROFESSORS HINTON AND REED

153. **Heating and Air Conditioning.**—Prerequisites: M.E. 102 or M.E. 104. M.E. 159 concurrently. 3 s.h. ASSISTANT PROFESSOR REED AND MR. COOK

154. **Refrigeration Engineering.**—Prerequisites: M.E. 102 or M.E. 104. M.E. 160 concurrently. 3 s.h. ASSISTANT PROFESSOR REED

155. **Internal Combustion Engines.**—Prerequisite: M.E. 101-102. 3 s.h.
ASSISTANT PROFESSOR HINTON

156. **Airplane Engines.**—Prerequisite: M.E. 155. 3 s.h. MR. ————

158. **Industrial Engineering.**—3 s.h. MR. THEISS

159. **Senior Mechanical Engineering Laboratory.**—Prerequisite: M.E. 114. M.E. 153 concurrently. 2 s.h.
ASSISTANT PROFESSOR HINTON; MESSRS. COOKE AND THEISS

160. **Senior Mechanical Engineering Laboratory.**—Prerequisite: M.E. 159. M.E. 154, 162 concurrently. 2 s.h.
ASSISTANT PROFESSOR HINTON; MESSRS. COOKE AND THEISS

162. **Power Plant Calculations.**—Prerequisites: M.E. 101-102 or 103-104. 3 s.h. PROFESSOR WILBUR

171-172. **Airplane Design.**—Prerequisites: M.E. 150, M.E. 108. M.E. 151 concurrently. 6 s.h. MR. ————

173-174. **Aerodynamics.**—Prerequisites: M.E. 105, M.E. 108. 4 s.h.
MR. ————

176. **Aeronautics Laboratory.**—M.E. 174 concurrently. 2 s.h.
MR. ————

197-198. **Projects in Mechanical Engineering.**—3-6 s.h.
PROFESSOR WILBUR AND STAFF

199-200. **Seminar.**—2 s.h. STAFF

NAVY V-12 COURSES

Navy V-12 courses may be substituted for College of Engineering courses as indicated below:

COLLEGE OF ENGINEERING	N V-12
G.E. 1-2. Engineering Drawing.	N D1. Engineering Drawing. N D2. Descriptive Geometry.
G.E. 57. Statics.	N A1. Analytical Mechanics-Statics.
G.E. 58. Kinetics.	N A2. Analytical Mechanics-Dynamics.
G.E. 107. Strength of Materials.	N CE3. Strength of Materials.
G.E. 109. Strength of Materials Lab.	N CE4a. Strength of Materials Lab.
G.E. 128. Hydraulics.	N CE6. Fluid Mechanics.
C.E. S60. Plane Surveying.	N CE1. Plane Surveying.
C.E. 63-64. Route Surveying.	N CE10. Curves and Earthwork.
C.E. 112. Practical Astronomy and Navigation.	N Math. M8. Elementary Navigation and Nautical Astronomy.
C.E. 115. Highway Engineering.	N CE17. Highway Engineering.
C.E. 118. Materials of Engineering.	N CE4. Strength of Materials Lab. I.
C.E. 123-124. Sanitary Engineering. (b) Public Water Supply. (c) Sewerage.	N CE14. Water Supply. N CE13. Sanitary Engineering.
C.E. 131. Steel Structures—Stresses.	N CE7. Structures I.—Structural Analysis.
C.E. 132. Steel Structures—Design.	N CE9.+ Structures III.—Elementary Structural Design in Steel and Wood.
C.E. 133. Reinforced Concrete.	N CE8. Structures II.—Theory of Reinforced Concrete.
C.E. 134. Advanced Reinforced Concrete.	N CE11.- Structures IV.—Concrete Structures and Foundations.
C.E. 135. Soils and Foundations.	N CE15. Soil Mechanics.
E.E. 51-52. Survey of Electrical Engineering.	N EE1. Electricity and Magnetism
E.E. 151. Theory of Direct Current Circuits.	N EE3. Electric and Magnetic Circuits I.
E.E. 152. Theory of Alternating Current Circuits.	N EE4. Electric and Magnetic Circuits II.
E.E. 153-154. Principles of Electrical Engineering.	N EE10, 11. Electrical Engineering I— Direct-Current Apparatus and Circuits. Electrical Engineering II— Alternating-Current Apparatus and Circuits.
E.E. 155. Direct Current Machinery.	N EE12a. Direct-Current Machinery and Storage Batteries.
E.E. 161-162. Electrical Circuits Lab.	N EE3-4. Electric and Magnetic Circuits I and II.
E.E. 163-164. Electrical Machinery Lab.	N EE15. Electrical Engineering Lab.
E.E. 202. Fundamentals of Radio.	N EE(5a-6a). Electron Tubes and Circuits Ia and IIa.
E.E. 257-258. Alternating Current Machinery.	N EE13a. Alternating-Current Machinery Ia.

E.E. 261. Communication Engineering, Audio Frequency.	N EE7. High-Frequency Circuits I.
E.E. 262. Communication Engineering, Radio Frequency.	N EE8. High-Frequency Circuits II.
M.E. 51. Constructive Processes.	N ME. Mechanical Processes.
M.E. 52. Kinetics-Mechanism.	N A1. Analytical Mechanics I—Statics. N ME1. Kinematics.
M.E. 54. Kinetics-Mechanism.	N A1. Analytical Mechanics I—Statics. N ME1. Kinematics.
M.E. 55. Steam Engineering.	N ME2. Elementary Heat Power.
M.E. 101-102. Engineering Thermodynamics.	N ME4. Thermodynamics I.
M.E. 103-104. Heat Power Engineering.	N ME4a. Thermodynamics Ia. N ME3a. Heat Power Ia.
M.E. 105. Fluid Mechanics.	N CE6. Fluid Mechanics.
M.E. 108. Aeronautics.	N ME14. Aerodynamics.
M.E. 113-114. Junior Mechanical Engineering Laboratory	N CE6. Fluid Mechanics.
M.E. 115-116. Junior Mechanical Engineering Laboratory.	N ME3a. Heat Power Ia.
M.E. 150-151. Machine Design.	N ME15, 16. Mechanical Design I, II.
M.E. 154. Refrigeration Engineering.	N ME13. Refrigeration.
M.E. 155. Internal Combustion Engines.	N ME11. Heat Power II—Internal-Combustion Engines.
M.E. 158. Industrial Engineering.	N GE3. Industrial Organization.
M.E. 159. Senior Mechanical Engineering Laboratory.	N ME10. Naval Machinery.
M.E. 160. Senior Mechanical Engineering Laboratory.	N ME11. Heat Power II—Internal-Combustion Engines.
M.E. 162. Power Plant Calculations.	N ME12. Heat Power III—Steam Power. N ME10. Naval Machinery.

GENERAL REGULATIONS

TRINITY COLLEGE, WOMAN'S COLLEGE, AND COLLEGE OF ENGINEERING

Under the accelerated wartime program and in keeping with the Navy schedule, Trinity College and the College of Engineering will be operated on semesters of sixteen weeks each, the first semester beginning on or about July 1, the second semester on or about November 1, and the third semester on or about March 1.

The Woman's College will operate as in the past on a two-semester basis, the fall semester opening in the middle of September.

It is important that all students be present on the first day of the session, for those who are late incur the penalties described in this catalogue under the topic "Admission to College" and below under the sub-topic "Course Cards." Students who enter after the beginning of the semester are marked absent in the work they have missed in the courses to which they are admitted, and these absences carry the same penalty as do other absences from the courses.

MATRICULATION, REGISTRATION, AND ENROLLMENT

All students must appear before the Committee on Admission and obtain cards for admission. Cards of admission must be presented at the Treasurer's Office at the time of matriculation. All students, both old and new, are required to matriculate at the beginning of each semester and to obtain from the Treasurer a certificate of matriculation which serves also as an enrollment card. Students matriculating in either semester at a date later than that prescribed in this catalogue shall pay to the Treasurer a penalty of $5.00 for late registration. Students whose course cards have been approved in the spring in the manner provided below are given an opportunity during the summer to matriculate by mail for the first semester. No student without a matriculation card is admitted to any class.

COURSE CARDS

Members of the Freshman, Sophomore, and Junior classes are required to submit to the Dean, not later than the date of spring registration, cards showing their selection of courses for the following year. These cards must be approved by the Dean. After being approved, the cards must be filed for permanent record in the Dean's Office. Students in the Freshman, Sophomore, and Junior classes who do not select their courses for the following year at the time appointed must pay a fee of $5.00 to the Treasurer of the University before their course cards may be approved in the fall. The same regulations apply for the second semester. Students whose course cards have been approved but who, for reasons

not arising within the University, desire to make a change in the card approved are required to pay to the Treasurer a fee of $1.00 for each change made. No course may be elected later than two weeks after the opening of the semester.

If a student drops a course without permission from the Dean of the College, the grade for that course shall be recorded as "F."

If a student drops with permission a course in which he is failing at that time, the grade for that course shall be recorded as "F" unless in the judgment of the Dean, circumstances do not justify this penalty.

EXAMINATIONS

Midyear and final examinations are held in all subjects in January and May, respectively. The examination record combined with the record made in class constitutes the student's final grade.

REGULATIONS REGARDING GRADES

The following regulations have been adopted by the Faculty:

Grades shall be reported so as to indicate one of four things:

(1) *Passed.* A grade of "A," "B," "C," or "D" shall indicate that a student has passed a course. The work of this group of students shall be graded according to the following system: "A": exceptional; "B": superior; "C": medium; "D": inferior.

(2) *Failed.* A grade of "F" shall indicate that the student has failed in the course and that in order to receive credit for the course he shall be obliged to take the work again in class.

(3) *Incomplete.* (a) A grade of "I" may be reported by the instructor if for any reason he is unable to report the final grade at the regular time. (b) All students with incomplete grades who have not satisfied the requirements of the departments concerned and who have not obtained a passing grade before the close of the semester following the date of the regular examination in which the "I" was incurred are regarded as having failed on the course concerned and must repeat the work in class in order to receive credit.

(4) *Absent from Final Examination.* (a) The grade "X" shall indicate that the student was absent from the final examination. (b) A student absent from examination and marked "X," if his absence has been excused by the Dean of the College, may receive an examination on the payment of a fee of $3.00 to the Treasurer of the University. The department concerned shall arrange for the examination in cases where absences are incurred and excused, and the grade reported in these cases shall be that earned by the student. (c) All students (with "X" grades) who have not satisfied the requirements of the department concerned and who have not obtained a passing grade before the close of the semester following the date of the regular examination in which the "X" was incurred, are regarded as having failed on the course concerned and must repeat the work in class in order to receive credit. (d) If a student's

absence from an examination is not excused by the Dean of the College, his grade for the course concerned shall be recorded as "F."

EXPLANATION OF QUALITY-POINT SYSTEM

The requirements for the degree are reckoned not only in semester hours but also in quality points. Quality points are the points earned by a student according to his grades, for each semester hour of credit. The grade "A" gives three quality points for each semester hour of credit; the grade "B," two quality points; the grade "C," one quality point. The grade "D" carries no credit in quality points. For the grade "F" one quality point is deducted for each semester hour of failure. Credit for 120 quality points, exclusive of those earned in physical education, is required for the degree of Bachelor of Arts or Bachelor of Science in all groups.

NUMBER OF HOURS OF CLASSWORK

Without special permission of the Dean, no undergraduate student is allowed to take less than fourteen semester hours of classwork a week.

The normal maximum credit work of an undergraduate student in the colleges of arts and sciences is fifteen, or seventeen semester hours (if one course is an eight semester hour science), and the permissible maximum is nineteen semester hours. This maximum, however, cannot be taken by a student who has not earned at least a "C" average on his work of the preceding semester.

CLASS STANDING

For a student to rank as a Sophomore, he must have to his credit twenty-four semester hours with an average grade of "C"; as a Junior, fifty-four semester hours with an average grade of "C"; as a Senior, ninety semester hours with an average grade of "C."

SENIOR WORK

A student of the Senior Class irrespective of his average grade in preceding years, must, in order to be eligible for graduation, complete the work of his Senior year with an average grade of "C" or better.

EXCLUSION FOR FAILURE

A student of the Freshman Class entering college for the first time is not permitted to remain in the University in the second semester unless he passes as much as six semester hours of the work of the first semester; any other student is not permitted to remain in the University in the second semester unless he passes as much as nine semester hours of work in the first semester.

A student of the Freshman Class is not permitted to re-enter in September, nor to enter the Summer Session, if he did not pass at least six semester hours of work in the second semester of the previous year and

a total of eighteen semester hours of work for the entire year; any other student is not permitted to re-enter in September, nor to enter the Summer Session, if he did not pass at least nine semester hours of work in the second semester of the previous year and a total of eighteen semester hours of work for the entire year.

STUDENTS TRANSFERRING FROM OTHER INSTITUTIONS

Students whose advanced credits from another institution are accepted by the University will be given an average grade of "C" on the semester hours with which they are credited, provided their grades warrant it.

DEFICIENCIES IN COMPOSITION

The following regulations have been adopted by the Faculty:

1. Any Freshman who is found by the English Department to be unable to handle satisfactorily the work of composition in English 1-2 is required to take special work until he is able to do satisfactorily the regular work of English 1-2.

2. No student who has failed in English 1-2 or 53 is permitted to become a special student without continuing his work in composition until he has made up his deficiency in this work.

3. Whenever the work of a student in any subject is satisfactory to an instructor except for gross errors in English, the instructor concerned may hand in a provisional grade only. This grade may not be recorded in the college files until the student shall have improved his work in composition to the satisfaction of the English Department. A list of such provisional grades, along with evidence of deficiencies, shall be furnished the English Department each term by the officers in charge of the grades, and a report shall be made by this department when the deficiencies shall have been removed.

4. All instructors are requested to advise their students each semester concerning these regulations.

CANDIDATES FOR ACADEMIC DEGREES

1. A tentative list of all candidates for the Bachelor's degree shall be prepared under the supervision of the Dean of the College as early in the college year as possible, shall be read by him to the Faculty at its first regular meeting in October, shall be furnished in copy to each department of instruction for information and reference, and also shall be posted in copy on the official bulletin board of the University for the information of the students concerned.

2. Copies of the second such tentative list likewise shall be prepared, read, and distributed by April 15.

3. A final list of all candidates for the degree shall be read by the Dean to the Faculty at its first regular meeting in May and shall be

adopted by the Faculty as the final list. After the adoption of this list no name may be added to it.

A student who completes in a summer session the work required by the University for the Bachelor's degree will be granted the degree at the end of that session.

CLASS ATTENDANCE

TRINITY COLLEGE AND THE COLLEGE OF ENGINEERING

Absence of an undergraduate civilian student of Trinity College or the College of Engineering from his classwork is excused only if the absence is unavoidable, due to illness, or approved beforehand by the Dean of the College. Punctual attendance also is required; both tardies and absences are reported at the end of each week to the Dean's Office by every instructor. They must be explained promptly by the student to the satisfaction of the Dean; otherwise they are regarded as unexcused. For the first unexcused absence from a course, the penalty is the loss of one quality point in that course; for the second from that course, the loss of an additional quality point in the course and probation in the course; for the third from that course, removal from the course without credit for the work done in it. Three unexcused tardies in a course carry the same penalty as one unexcused absence from that course; four in a course that of two unexcused absences from that course; five in a course, that of three unexcused absences from the course. A student shall be recorded as tardy if he is not present at roll call. A student who is dropped from two or more courses for excessive unexcused absences or tardies is dismissed from college for the rest of the semester.

Instructors' weekly attendance reports are filed in the Dean's Office and become a part of the permanent record of all students. No instructor has the authority to excuse either tardies or absences of students.

THE WOMAN'S COLLEGE

Regular and punctual attendance in classwork is expected of all students.

Weekly reports of all absences from class are made by each instructor and are filed in the Dean's Office. A permanent record of the attendance of each student becomes a part of her general college record. The instructor has no authority to excuse a student from class attendance, and it is his duty to report all absences, for whatever cause, to the Dean's Office at the end of each week.

In order to provide for an occasional short illness or for a sudden emergency, one absence per semester-hour credit may be incurred in each course during each semester without penalty, but no consecutive absences, except for illness or unless excused beforehand by the Dean, may be taken in any course, unless the class is scheduled on consecutive days. As stated above, the purpose of this rule is to provide for those absences made necessary by illness and various emergencies, and students should reserve them for such occasions.

For any consecutive absences from a course, except for illness in the Infirmary, excuse from the Dean's Office is necessary. Excuse for absence due to prolonged illness or to authorized representation of the University in a student acitvity must also be obtained from the Dean's Office.

After the total number of absences allowed in any course has been incurred by a student for any reason whatsoever, no further absences, except those excused by the Dean, may be incurred.

No absences on days immediately preceding or following a holiday will be allowed.

ASSEMBLY AND CLASS MEETINGS

TRINITY COLLEGE AND COLLEGE OF ENGINEERING

Because of the wartime schedule, assembly and class meetings which are held regularly when the normal schedule is in effect have been eliminated for the present. These meetings, however, may be held on call when conditions justify it.

WOMAN'S COLLEGE

A weekly assembly is held for all students in the Woman's College, and an additional assembly for all Freshmen and transfer Sophomores. A meeting of the Freshman Class is held each week, and other classes meet at appointed times.

Attendance upon all of these meetings is compulsory for all students involved.

SCHOLASTIC REGULATIONS FOR ATHLETIC AND OTHER ORGANIZATIONS

The following regulations have been adopted by the Faculty:

1. Any student who receives less than a passing grade on more than six hours of his required work of the preceding term shall be ineligible to represent the University in any athletic contest, concert, or other public event.

2. Members of athletic teams or other student groups engaging in public representation of the University are expected to be carrying satisfactorily their current work. A student may be barred from participation in such representation if, in the opinion of the Dean, he is not doing satisfactorily his current work.

Duke University is a member of the Southern (Athletic) Conference and observes the following scholastic requirement of that Conference:

> "The scholastic requirement for eligibility to participate in varsity intercollegiate sports shall be the passing by the applicant of a minimum of twenty-four semester hours or thirty-six quarter-hours of the work of his immediately preceding year in college; with the proviso that graduate students and students in the schools of law and medicine become scholastically eligible on the certificate of the deans of their schools."

THE ATHLETIC COUNCIL

The Board of Trustees, at its regular annual meeting in June, 1907, created an Athletic Council to be composed of eleven members appointed annually: three from the Faculty, to be appointed by the President of the University; four from the alumni, elected by the Alumni Association; and four from the undergraduates, one from each of the four classes, elected by the members of each class.

The three members of the Athletic Committee of the Faculty are the Faculty representatives in the Athletic Council. This committee alone has the responsibility of enforcing the scholastic and athletic requirements of the University for student participation in intercollegiate sports. The athletic eligibility rules are those of the Southern Conference; the scholarship requirements are printed elsewhere in this catalogue.

The Executive Committee of the Athletic Council is composed of the Chairman of the Faculty Committee on Athletics, and one other Faculty member and one alumni member of the Council. The Athletic Council on recommendations of its Executive Committee arranges athletic schedules, awards insignia of merit earned by members of athletic teams, and strives to promote among students of the University a proper and helpful athletic spirit; to encourage good fellowship in such sports both within the student body and toward student bodies of other educational institutions; through athletic sports to help cultivate a high sense of honor, earnest, unselfish effort, and manly conduct. The Executive Committee of the Council recommends to the President of the University persons to serve as Graduate Manager of Athletics and as coaches in the various sports. The election of such persons, however, rests solely with the Trustees of the University or the Executive Committee of the University, on recommendation of the President of the University.

All funds arising from athletics are handled entirely by the Treasurer of the University. An audit of the receipts and disbursements of these funds is made annually by the official auditors of the University.

REGULATIONS REGARDING PUBLIC LECTURES AND OTHER PUBLIC OCCASIONS

All public lectures or addresses and other public events that are given under the auspices of the University or of any organization in any way connected with the University are under the supervision of the Faculty Council on Public Lectures. All dates and programs must be approved by this council except in instances where such occasions have been placed under the supervision of the Director of Public Relations.

HEALTH AND PHYSICAL EDUCATION

The program of Health and Physical Education in Duke University has four distinct phases, as follows:

1. Student Health.
2. Physical Instruction.
3. Intramural Sports.
4. Intercollegiate Athletics.

MEDICAL CARE

With the exceptions noted below, full medical and surgical care is furnished to all regularly matriculated students of the University, during both the college year and the summer quarter, at no additional cost to them beyond the medical fee of $5.00 payable each semester or the medical fee charged each student of the summer quarter. This service is under the direction of the University Physician with the co-operation of the Staffs of the Infirmaries (one on each campus) and the University Hospital. It includes hospitalization (limited to thirty days), medical and surgical care, drugs, dressings, X-ray work, and ward, but not special nursing. A charge for board is made at the same rate as in the University dining halls, and student meal tickets for these halls are accepted in payment of this board. Refraction of eyes, treatment of teeth and of all chronic and pre-existing conditions, such as diseased tonsils, hernias, elective surgery, chronic skin conditions, endocrine disturbances, etc., or accidents or illnesses occurring during vacations or while off the campus, are not included in this service. The cost of any necessary braces and orthopaedic appliances, as well as of special nursing, must be borne by the student.

No illness is treated in dormitory or other rooms occupied by students. Students needing treatment for minor medical or surgical conditions have the attention of the Director at his two daily visits to the Infirmaries, which have day and night nurses on duty. Students developing serious conditions are promptly transferred from the Infirmaries to the University Hospital, where they come under the care of the Staff of the Hospital.

PHYSICAL EDUCATION AND INTERCOLLEGIATE SPORTS TRINITY COLLEGE AND THE COLLEGE OF ENGINEERING

The University requires all students to engage in some type of physical activity for two years or four full semesters. This work consists of participation in natural, practical, physical activity for at least three one-hour periods each week. A credit of six hours, with an average grade of "C," is required in physical education for graduation.

The intercollegiate athletic program is controlled entirely by the University and consists of the organization and training of representative Freshman and varsity teams in the following sports: football, basketball, baseball, track, cross country, swimming, lacrosse, wrestling, tennis, and golf.

WOMAN'S COLLEGE

The Physical Education Department aims to give all students an appreciation of the value of activity for general physical well-being, skill in one or more activities which can be enjoyed as recreation after college, a well-developed and well-coordinated body, and a knowledge of good posture and efficient handling of the body in everyday activities.

To this end, students are allowed to choose from a large number of activities including outdoor individual, dual, and team sports, several types of dancing, swimming, and gymnastics. All Freshmen are expected to take body mechanics in the winter, and each student must elect a

rhythm, one team sport, and two individual or dual sports sometime during the three years of required physical education.

With the wartime emphasis on physical fitness for women as well as men, the more vigorous activities are being stressed. At present, therefore, all required work must be elected from the group of activities designated by the Department as vigorous. Light activities may be elected in addition to the required work.

In addition to the required work in physical education the Dance Club, the Swimming Club, and the Woman's Athletic Association give opportunities for all students to take part in the types of intramural activities most interesting to them. The swimming pool, tennis courts, and other athletic equipment are available to all students for use at specified times.

PUBLICATIONS COUNCIL

The student publications of the University are under the control of a council that was established in 1924 and reorganized by the Executive Committee of the University in 1935, and is constituted as follows: three (3) members from the University Staff appointed by the President of the University; two (2) members from the alumni appointed by the President of the University; six (6) men from the Junior and Senior classes, elected by the students in Trinity College and the College of Engineering; four (4) women from the Junior and Senior classes, elected by the students in the Woman's College; and three (3) editors and three (3) managers of student publications, ex officio members without any voting power. With the advice of the Council, the President of the University appoints each year for each publication an advisory committee of three (3) members from the Staff of the University.

No student publication can be started at the University without the approval of the Council.

RELIGIOUS EXERCISES

Chapel exercises are conducted throughout the academic year at 6:40 P.M. Thursday on the campus for men. Preaching services are held on Sunday at 11:00 A.M. in the University Chapel. Organ recitals are given on Sunday afternoons. In the summer carillon and organ recitals are given twice a week.

UNIVERSITY LECTURES

THE AVERA BIBLE LECTURES

The Avera Bible Fund was established in 1897 in honor of the late W. H. Avera by his wife, who donated $2,500 for this purpose. The income from this amount is used to establish a lectureship and to provide a collection of books on Biblical Literature.

JOHN MCTYEIRE FLOWERS LECTURES

The John McTyeire Flowers Lectures, established by the late B. N. Duke as a memorial to John McTyeire Flowers, a young alumnus of Trinity College who died in the Far East in 1905, were inaugurated in 1921.

UNIVERSITY LECTURE SERIES

The University Series of Lectures is given each year. These lectures are under the supervision of the Committee on Public Lctures of the Faculty.

DUKE UNIVERSITY DAY

In commemoration of the signing by the late James B. Duke, on December 11, 1924, of the Indenture of Trust creating the Duke Endowment, under which Trinity College was expanded into Duke University, appropriate exercises are held on Duke University Day at the University. Various local alumni groups celebrate the anniversary in connection with their annual meetings, some of which are held on December 11 but most of them on other dates during the autumn.

ALUMNI ORGANIZATIONS

GENERAL ALUMNI ASSOCIATION

The Alumni Association of Duke University is composed of the male graduates and former students of Trinity College and Duke University. The Association gives its annual luncheon at Commencement at which a message of greeting is given by a representative of the class holding its twenty-fifth anniversary reunion. The annual business meeting of the Association is held at this time.

GENERAL ALUMNAE ASSOCIATION

The Alumnae Association of Duke University is composed of the women graduates and former students of Trinity College and Duke University. The Association joins with the Alumni Association in the annual luncheon at Commencement, holding its annual business meeting immediately afterward.

GENERAL ALUMNI COUNCIL

To give definite direction and supervision in the campaign for the erection of the Alumni Memorial Gymnasium, and for other purposes, an Alumni Council was provided for at the June, 1919, meeting of the Alumni Association. Since that time the Council has developed into a working body for the promotion of alumni interests by reason of its size and frequency of meetings. The membership is made up of representatives from local associations; class representatives, elected by reunion classes on the occasion of their fifth anniversary, or a multiple thereof; and officers of the Alumni Association.

GENERAL ALUMNAE COUNCIL

At the June, 1925, meeting of the Alumni Association the Alumnae Council was organized to function in a manner similar to that of the Alumni Council, in the interest of the former women students and of the University. Its purpose and form of organization are very much the same as those of the Alumni Council.

THE ALUMNI OFFICE

The General Alumni Office was organized to promote the work of the local alumni and alumnae associations and to co-ordinate the various activities of the General Alumni and Alumnae Associations and the General Alumni and Alumnae Councils. Seventy-seven county and local alumni associations have been formed in North Carolina and other states.

THE ALUMNI REGISTER OF DUKE UNIVERSITY

The Alumni Register of Duke University is a monthly magazine published by the Alumni Association in the interest of the alumni and the University. It aims to keep the alumni in touch with one another and with the University.

THE ALUMNI NEWS

The Duke University Alumni News is sent to all alumni four times during the year.

APPOINTMENTS OFFICE

With the co-operation of the Alumni Office, the University maintains an Appointments Office, in charge of a whole-time director, to serve graduates and advanced students of the institution on the one hand, and those who desire well-qualified persons for teaching and commercial positions on the other hand. The Appointments Office is divided into two sections: (1) the Division of Teacher Placement and (2) the Commercial Positions Division.

DUKE UNIVERSITY NEWS SERVICE

The Duke University News Service is the official publicity agency of the University for the purpose of sending out news to the press. It functions as a division of the Department of Public Relations and Alumni Affairs.

FEES AND EXPENSES

The following tables show the general fees and charges collected from all students and the special fees collected from those taking courses in the sciences and in history. All fees for each semester are due and payable, unless otherwise specified, at the time of registration at the beginning of that semester, and no student is admitted to classes until arrangements have been made with the Treasurer of the University for the settlement of fees.

GENERAL FEES

Matriculation, per semester	$ 25.00
Tuition, per semester	100.00
Room-rent—See the detailed statement that follows.	
Athletic Fee, admitting students to all athletic contests held on the University grounds, per semester	5.00
Recreation Facilities and Equipment Fee, per semester	1.00
Damage Fee, payable annually at the time of first registration	1.00
Medical Fee, per semester	5.00
Library Fee, per semester	5.00
Commencement Fee, payable annually at the beginning of the second semester	3.00
Publication Fee:	
First semester	3.00
Second semester	2.50
Diploma Fee, payable by candidates for degrees, refunded if the diploma is not awarded	5.00

LABORATORY AND MATERIALS FEES

Botany 1, 2, 52, 55, 101, 104, 202, 204, 221, 255, and 256	$ 2.50
Botany 51, 103, 151, 156, 203, 216, and 252	5.00
Forest Botany 224 and 253	2.50
*Chemistry 1, 2, 61, 70, 131, 132, 153, 154, 215, 216, 261, and 262	7.00
Chemistry 151, 152, 155, 241, 242, 253, and 254	8.50
Education 1, 58, 68, and 101	1.00
Education 112, 115, 116, 122, and 131	7.50
Education 208 (for testing materials in lieu of text)	2.50
Engineering	
Civil S60—See *Summer Session Bulletin.*	
Civil 61, 63, 64, 112, 118, 123, 124, 135, 143, 144, and 240	2.00
Electrical 153, 154, 161, 162, 163, 164, 261, 262	2.00
General 109	2.00
Mechanical 113, 114, 159, 160, 176	2.50
Forest Botany 224 and 253	2.50
Forestry 224, 253, 254, 259, 260, 264, 357a, and 358a	2.50
Forestry 261, 351, 352, 354, 357b, 358b	$2.50 to $5.00
Geology 51, 52, 53, 101, 151, and 152	2.50
Geology 102	5.00
Field trip in Geology 51-52 and 101-102 at cost.	

* When the laboratory in Chemistry 153-154 supplements that of another course and is taken simultaneously with such course, no fee is charged with Chemistry 153-154.

History 91 and 92 ..... 3.00
No texts are required in these courses, but a fee of $3.00 is charged, and books are placed in the Library for the use of those taking the courses. This fee is payable at the beginning of the semester and is collected through the office of the Treasurer of the University.
Physical Education, per semester, for men 1.50
Physical Education, per semester, for women 1.00
Physics 1 and 2 ..... 2.00
Physics 51, 52, 57, 58, 61, 62, 70, 103, 104, 108, 215, 216, 217, 218, and 219 3.00
Physics 106 ..... 5.00
Zoology 1, 2, 92, 161, 204, 219, 220, 222, 274, 276, 306, 324, 343, 353, and 354 ..... 3.00
Zoology 53, 151, 156, 224, 229, 303, and 321 ..... 5.00

TEACHERS TAKING COLLEGE COURSES

Teachers in near-by schools, taking one or two courses, are required to pay a registration fee of $5.00 each semester and a tuition fee of $3.00 per semester hour of credit in addition to any regular laboratory fee or other fees collected from those students taking the courses.

ESTIMATED EXPENSES FOR AN ACADEMIC YEAR

The necessary expenses of a student are moderate; the University dormitories provide thoroughly comfortable and wholesome living conditions at a minimum of cost, while all charges made by the University have been kept low. Incidental expenses depend naturally upon the tastes and habits of the individual, but the actual necessary college expenses for one year, including board, room-rent, and such University fees as tuition, matriculation, commencement, library, damage, and medical, vary from $574.50 to $639.50 for a two-semester year. Books and laundry are not included in these figures.

LIVING ACCOMMODATIONS FOR MEN

Single room, per semester—Craven, Crowell, and Kilgo Quadrangles, West Campus $75.00
Double room, per student, per semester—Craven, Crowell, and Kilgo Quadrangles, West Campus 62.50
Double room, per student, per semester—Southgate Hall, East Campus.. 50.00
Double room, per student, per semester—Epworth Hall, East Campus.. 30.00

There are three groups of resident houses designated as Craven, Crowell, and Kilgo Quadrangles on the West Campus. The rooms are single, double, or arranged in suites of two rooms for four students. There are thirty-one houses within the three groups designated by the letters of the alphabet.

There are also two dormitories on the East Campus used for men—Southgate and Epworth halls. All these rooms are equipped for two persons. Students in the College of Engineering are expected to live in either Southgate or Epworth, which are located near the Engineering College. Room reservation fees and applications for room assignments should be addressed to the Director in the Business Division, East Campus.

There is one building definitely assigned as a Freshman dormitory.

Rooms are reserved only for applicants who have been officially accepted by the University, upon application to the Director in the Business Division, Duke Station, Durham, North Carolina. A reservation fee of $25.00 at the office of the Director in the Business Division is required. This reservation fee is deducted from the room charges at the time of registration for the fall semester.

A resident student in order to retain his room for the succeeding semester is required to make application accompanied by a reservation fee of $25.00 at the office of the Director in the Business Division. All rooms which have not been reserved on or before an announced date will be considered vacant for the succeeding semester and will be reserved in the order in which applications are made.

Rooms are rented for no shorter period than one semester, or in the case of a medical student, one quarter, unless by special arrangement with the Director in the Business Division. A period of occupancy other than a semester or quarter and without special arrangement will be charged at a minimum rate of $1.00 each day.

The exchange of rooms may be arranged for at the Housing Bureau within fifteen (15) days after the official opening of the semester or quarter of the school term. A charge of two dollars ($2.00) will be made for the exchange of rooms after the periods allowed for such exchange. Persons exchanging rooms without the approval of the Housing Bureau will be subject to charges for both rooms.

The authorities of Duke University do not assume the responsibility of selecting and assigning roommates, though they will gladly render any assistance possible.

DORMITORY REGULATIONS

Duke University is particularly eager that its students shall have the best dormitory life to be found in any institution, and to encourage this has provided buildings and equipment which are not surpassed. The institution asks and believes that in return each student will respond to this effort by arranging his personal belongings in an orderly manner, and by caring for the buildings and funiture as he would do in the home of a friend. The following regulations are offered as a guide and a reminder that care is desired.

1. The student will be held responsible for any damage to the room or furnishings during the rental period, and will pay for all damages caused by his neglect, misuse or abuse of any part of the University property. Inspections will be made throughout the college year to observe the condition of the rooms and to advise students concerning the care of rooms, if necessary.
2. Maids will prepare the rooms daily except Sunday, the service beginning promptly at 8:00 A.M. and ceasing at 1:00 P.M., thereby giving the student complete use of his room during the afternoon.
3. University furniture or furnishings must not be removed from the room in which they have been placed by the University.
4. Electric wiring, door locks, window screens, steam or water lines should not be changed or added, since the University supervises and makes such changes as are necessary and advisable.

5. Pictures, pennants, clippings should be hung from the picture moulding and not tacked or pasted on walls or woodwork.

6. Each student is expected to supply necessary sheets, blankets, pillows, rugs, and curtains. Furniture, beds and mattresses (39" x 74"), tables, chairs, dressers, mirrors, and window shades are furnished by the University.

7. All trunks and heavy luggage will be stored in the trunk rooms. Janitors will remove the trunks from the hallways to the storage rooms when they are unpacked.

8. The exchange of rooms or keys should be arranged for at the office. Any exchanges made otherwise will subject the participant to charges for both rooms.

9. The use or possession of intoxicating liquors, wines or beer, and gambling in any manner in any of the buildings or on the grounds of Duke University are forbidden.

10. Animals shall not be kept in the dormitories.

11. Women are permitted in the dormitories only when accompanied by the University Hostess.

12. The use of dormitory rooms as a sales office or storeroom, or the solicitation for sales or gifts within the buildings or on the grounds is prohibited except by appointees of the University.

LIVING ACCOMMODATIONS FOR WOMEN

The Woman's College campus, known as the East Campus, is situated about a mile and a quarter from the West Campus, with a private road connecting the two.

Houses—The seven residence houses on the East Campus are Alspaugh, Aycock, Bassett, Joseph G. Brown, Giles, Jarvis, and Pegram. A plan of the houses will be sent upon request to the Director in the Business Division, College Station, Durham, North Carolina. Each house has a resident head of house and paging system for announcing visitors.

Rooms—All questions concerning rooms should be addressed to the Director in the Business Division. The students' rooms are single, double, or arranged in suites of two rooms for two students.

Room Furnishings—Rooms are supplied with all necessary furniture. Curtains, towels, sheets, pillow-slips, blankets, and heavy bed covering, etc. are furnished by the students. Sash curtains of a standard type are required and can be bought at the College Store. Draperies, small scatter rugs, and study lamps can be brought from home or bought at reasonable prices from the College Store or in the city. Large rugs and heavy overstuffed furniture may not be brought into the dormitories.

Room-rent—

Single room, per student, per semester, Giles, Alspaugh, Pegram Bassett, Brown and Jarvis Houses	$87.50
Double room, per student, per semester, Giles, Alspaugh, Pegram, Bassett, Brown and Jarvis Houses	62.50
Single room, per student, per semester, Aycock House	75.00
Double room, per student, per semester, Aycock House	50.00

Room Reservation—A room reservation fee of $25.00 is required before any room reservation can be made for new or returning students. This fee is deducted from the room charges at the time of registration for the fall semester. Applicants for admission are requested not to send the room reservation fee until notified of acceptance. Those who make application and are accepted will not be entitled to have the reservation fee refunded unless the request is made on or before July 15. Those who are accepted after July 15 have ten days in which to pay their room reservation fee. This fee is not refundable.

No room assignments will be made for new students until they have been officially accepted by the Council on Admissions. The room reservation fee of

$25.00 is payable immediately upon notification of acceptance by the Council on Admissions. If room reservation fee has not been received within ten days after notification of acceptance by the Council on Admissions, the admission will be canceled.

Details relative to the signing of rooms by resident students will be posted on dormitory bulletin boards about April 15. Resident students have the right to retain their rooms for the ensuing year or to sign for new ones in the order of their class beginning with the Seniors. The new students are then assigned the remaining rooms, and in so far as possible, the type of room which they prefer. The University is responsible for the fall semester only for securing roommates for new students desiring double rooms. After a student has been a resident for one semester, the responsibility for securing and keeping a roommate is transferred to the student. If a student occupying a double room does not have a roommate by the date posted, approximately two weeks after the beginning of the semester, she will be required to pay double rent. The University is glad to co-operate in assisting the student to find a roommate.

When a room is once engaged by a student no change will be permitted except with the consent of the Director in the Business Division. Leaving one room and occupying another without permission is strictly against the rule and will render the offender liable to a charge for both rooms for the entire semester. No occupant is permitted to rent or sublet a room to another occupant. Rooms are rented for no shorter period than one semester. When a student leaves school before the end of the semester, the charge is $1.00 a day unless the total charge on this basis is in excess of the room rent for the semester. All undergraduates who are not residents of Durham are required to live in the dormitories unless they are living with their parents or near-relatives. An undergraduate woman who is over twenty-one years of age and who wishes to live in the city may make special arrangements with the Dean. Provision is made for graduate students to live on the campus.

No visitors are permitted in any sections of the dormitories which are occupied by women except by permission of the office of the Head of the House. Merchandising, solicitation, or advertising of any type is strictly forbidden within the dormitories.

BOARDING ACCOMMODATIONS

Trinity College, West Campus.—Beginning with the academic year 1930-31 the University opened its dining hall in the Union on the West Campus with accommodations sufficient to provide in a superior way for all resident men students. Charges for board are approximately $30.00 per month.

The Union is the logical center of student activities for men, and it will be found desirable for male students to board in its supervised halls. In the Union are located the University Post Office, the University Store, the University Barber Shop, and all publications staff offices.

In addition to the Union dining halls, the Coffee Shop is operated for the convenience of students and visitors.

Woman's College, East Campus.—The dining halls of the Woman's College are situated in the Union, the student center, on the East Campus. No resident woman is permitted to board elsewhere than at this Union. Board is $125.00 per semester.

Because of the large number of those served in the Union dining halls, it is not possible to arrange special diets for individual students. Special diet for the sick is served in the Infirmary.

The Union includes a Faculty dining room, a lounge, and other rooms for various student activities.

College of Engineering, East Campus.—The James H. Southgate Memorial Building, set aside for the housing of engineering students, contains social rooms, gymnasium, dining hall, and kitchen, as well as dormitory facilities. Meals are provided in this building at the same rate which prevails in the other University dining halls.

LAWS REGARDING PAYMENTS

The Executive Committee of Duke University has enacted the following regulations which govern the payment of all fees due the University:

1. The President and the Treasurer of the University have no authority to suspend or in any way alter these regulations.
2. Matriculation and tuition fees are never refunded.
3. Any student who has failed to pay his bills on the dates advertised in the catalogue is denied the right to attend classes until his account is settled in full.
4. No student is considered by the Faculty as an applicant for graduation until he has settled with the Treasurer for all his indebtedness to the University.
5. No student who has not settled all his bills with the Treasurer of the University is allowed to stand the midyear or final examinations of the academic year.

When a student wishes his bills sent to his parents or guardian, the student or his parent or guardian must so notify the Treasurer of the University in writing in due time, but this in no way releases the student from liability to established penalties, if his bills are not paid on the dates advertised.

TRANSCRIPTS

Students desiring to transfer from Duke University to another institution are entitled to one transcript of their record. A charge of $1.00 is made for each additional copy.

SCHOLARSHIPS, LOANS, AND EMPLOYMENT AID

Duke University annually awards available scholarships, administers loan funds, and supervises student employment through a committee of the Faculty for deserving undergraduates of Trinity College, the Woman's College, and the College of Engineering.

SCHOLARSHIPS

Scholarships intended to aid needy and deserving students have been established from time to time by persons deeply interested both in Duke University and in the members of its student body. Such scholarships are supported by the income from invested funds. All scholarship endowments are held in trust and are kept separate and distinct from other holdings of the University. All income is faithfully applied in accordance with the terms of the gift or bequest.

In addition, a limited number of scholarships, notably the honorary awards in recognition of scholastic merit and strength of character, are financed through current funds of the University.

Scholarships are awarded annually by a committee of the Faculty appointed by the President of the University. In some cases donors have specified certain limitations and conditions. These are faithfully followed, but in all cases final award is made by the Faculty committee.

As a general rule, scholarships cover tuition charges only, though in some instances provision has been made for larger amounts. Any prospective student may apply for a scholarship. No application, however, may be made formally by a prospective student until application for admission has been made, all necessary credentials have been presented, and notification of acceptance has been given. The number of scholarships available is small in comparison with the number of undergraduate students enrolled in the University, and as a result the committee in making the awards attempts in so far as possible to limit scholarship aid to cases where the need is imperative. Before applying for such aid, a student should first have exhausted all means of aid from parents, kinsfolk, interested friends, and commercial or civic agencies in his home locality.

All applications for scholarship aid should be made to the Scholarship Committee, Secretary's Office, Duke University.

LOAN FUNDS

A number of loan funds have been established for the benefit of students of Duke University. The most important and largest of these is the Angier B. Duke Memorial Student Loan Fund, which is administered through an advisory committee of officers of the University. The amount

available to be loaned annually depends upon the income from investments and on the amount repaid on loans previously made to students.

The same committee of officers administers the other endowed loan funds of the University.

Although a considerable sum accrues annually for loans to students, it is not sufficient to provide for all calls for assistance. The committee in approving loans selects those students who from the standpoint of character, scholastic attainment, personality, and degree of financial need are most deserving of consideration.

The following regulations govern the making of all student loans:

1. No loans shall be made to a student who violates any of the regulations of the University or whose classwork is not satisfactory to the Faculty.
2. As a general policy a student is not potentially eligible for loan assistance until he has been in residence at least one semester and until those responsible for the administration of loan funds have had an opportunity to acquaint themselves with the worthiness and the need involved in any particular case.
3. Loans will be made only to students who are taking approved courses of study that lead to a degree, and all loans must be arranged for not later than one week after the beginning of a semester.
4. Every applicant for a loan must present with the application such security as the President of the University may approve, and no money shall be advanced before a note with approved security is in the hands of the Treasurer of the University.
5. No loan will be made to defray any other expenses than those incurred during the academic year for tuition, for matriculation, or for room-rent.
6. Interest at a rate of 6 per cent annually shall be charged for all loans of money, and the interest must be paid annually.
7. Applications for loans should be made to the Loan Committee, Secretary's Office, Duke University Station. A formal application for loan assistance may be made only on blanks furnished in the Secretary's Office at the time of registration. The granting or withholding of a loan is a matter entirely within the discretion of the Loan Committee. A student is expected to use all other possible means of securing financial assistance before applying for aid from the Loan Fund.

EMPLOYMENT

A number of students each year secure part-time employment on the University campus and in the city. Those in need of such employment may apply to the Secretary of the Committee on Student Aid, Secretary's Office, Duke University. No definite number of such places can be promised. Available places will be assigned in accordance with the merit and the need of the applicants.

HONORS AND PRIZES

To be eligible for Honors a student must earn during the year a credit of not less than thirty semester hours. Students in the Freshman, Sophomore, and Junior classes who earn an average of at least two and one-half quality points per semester hour are given Honors. All semester hours on which a student receives a grade are counted in the determination of Honors.

The degree of Bachelor of Arts or of Bachelor of Science with distinction is conferred upon the following rules:

Students who have completed a minimum of ninety semester hours in Duke University are eligible for general Honors at graduation. Those who earn an average of at least two and one-half quality points per semester hour are recommended for a degree *magna cum laude*. Those who earn an average of at least two and three-fourths quality points per semester hour are recommended for a degree *summa cum laude*. All semester hours taken in Duke University on which a student receives a grade are counted in the determination of Honors.

MEDALS AND PRIZES

The Wiley Gray Medal was established by the late Robert T. Gray, Esq., of Raleigh, North Carolina, to be awarded annually in memory of his brother. It is given for the graduating oration that shall be, in the opinion of a committee, the best, with respect to both declamation and composition.

The Debate Council authorizes the awarding of medals to members of the graduating class who have represented the University in at least two intercollegiate debates. The medals are given by the local chapter of the Tau Kappa Alpha Fraternity.

The Robert E. Lee Prize is the gift of the Reverend A. W. Plyler, of the Class of 1892, and Mrs. Plyler. The sum of $50 is awarded annually at Commencement, preferably to that member of the Senior Class who in character and conduct, in scholarship and athletic achievement, in manly virtues and the capacity for leadership, has most nearly realized the standard of the ideal student. The Dean of the College, the Graduate Manager of Athletics, and the President of the Student Council constitute a committee to draft and adopt regulations governing the award.

Alpha Kappa Psi Medallion. This prize is offered each year to the member of the graduating class who makes the highest record in economics and business administration during his career at the University.

The Willis Smith Prize. Mr. Willis Smith, a member of the Raleigh Bar and Chairman of the Law School Committee of the Board of Trustees of Duke University, awards each year to that member of the graduating class of the Law School who has maintained the highest scholastic average during the entire three years of Law School work, a prize consisting of a set of books selected personally by Mr. Smith each year for that purpose.

Julia Dale Prize in Mathematics. This is a prize of books given annually to the undergraduate who shows the greatest proficiency in the study of the calculus.

The Milmow Prize, consisting of one year's subscription to the *Electrical World,* is awarded each year to that student from North or South Carolina graduating in the Department of Electrical Engineering, who, in the opinion of the Faculty of that department and as shown by his grades, has made the most progress in electrical engineering during his last year in college.

Institute of the Aeronautical Sciences Awards. Two annual awards, each consisting of a two-year paid-up membership in the Institute and a certificate, presented, respectively, to the student presenting the best paper before a meeting of the Duke student branch of the Institute, and to that student of the Department of Mechanical Engineering making the highest scholastic record in aeronautical engineering courses.

The Pegram Chemistry Club Prize will be awarded in the spring of each year for scholarship in chemistry, physics, and mathematics. The prize is to consist of one-year junior membership in the American Chemical Society, and a one-year subscription to either the *Journal of the American Chemical Society,* or to *Industrial and Engineering Chemistry.* To qualify for this prize the student must (1) be enrolled as an undergraduate of Duke University and (2) be taking or have taken a fourth-year chemistry course. The winner of this prize is to be selected by a committee consisting of at least one Faculty member and at least two members of the Pegram Chemistry Club; the selection is to be based on the quality-point average for all courses taken in chemistry, physics, and mathematics. In case of a tie equal awards will be given.

The Sigma Xi Prize. The Society of the Sigma Xi, honorary scientific society, is devoted to the encouragement of scientific research, and seeks to stimulate those who show promise of accomplishment in scientific research. As an encouragement to younger men and women the Duke Chapter of Sigma Xi has established the following prizes to be awarded annually to students resident at Duke University: $20.00 for an undergraduate project or paper, $20.00 for a Master's thesis or its equivalent, and $40.00 for a Ph.D. dissertation or its equivalent. Nominations, recommendations, copies of theses, reports or other material must be in the hands of the Secretary of the Chapter on or before May 5.

The Erasmus Club Prize in the Humanities. The Erasmus Club, founded in 1925, a group of Duke faculty members interested in research in language, literature, and the arts, seeks to stimulate interest and study in these fields. To encourage Duke students in this field, the Erasmus Club has established an annual prize, amounting to $25.00, for the best original essay by an undergraduate which embodies the results of research, criticism, or evaluation in some subject in the humanities. Prospective competitors should consult some member of the Faculty, preferably their major professor. Essays must be typewritten and must be submitted to the president of the Club before the first of April. The Club reserves the right to withhold the prize in case there are no essays of acceptable quality.

STUDENT ORGANIZATIONS AND ACTIVITIES

The Men's Association of Duke University comprises all men students in Trinity College. It functions through its officers and a council to initiate policies and to oversee matters within the control of the student body. The council is composed of nine members: three executive officers, two representatives from the Senior Class, two from the Junior Class, one from the Sophomore Class, and one from Southgate Dormitory.

The Women's Student Government Association is similar in character to the men's association. Its council is composed of the officers of the association and ex officio of the Y.W.C.A. president and an undergraduate representative.

The Young Men's Christian Association and the *Young Women's Christian Association* are branches of the national student Christian Associations. Each body aims to enrich not only the religious life of its members as individuals but also to promote religious group activity. Delegates are sent each year to summer conferences, state conventions, interstate conventions, and the state Bible and missionary institutes. Every year a series of special religious services is held. The Open Forum Bible Class is conducted under the auspices of the Church Board.

Other organizations and activities include the following:

Bench and Bar Association (Pre-Legal Undergraduates); Classical Club (Men); "Cogs" (College Organization for General Service); Debate Council (Men); Debating Club (Women); Duke University Church (Interdenominational); Duke University Pre-Medical Society (Undergraduate Medical Group); Hoof and Horn Club; Isotes (Independent Social Group—Women); Ministerial Fellowship; Modern Dance Group; Nereidian Club (Women); Poetry Club; Quadrangle Pictures; Student Forum Committee (Women); Student Religious Council; The Duke Players; The Explorers' Club;* Town Boys' Club; Town Girls' Club; Trident Club; Wartime Social Activities Board; Women's Athletic Association; and W. H. Pegram Chemistry Club.

HONORARY ORDERS AND FRATERNITIES (NATIONAL)

Chi Delta Phi (Literary—Women); Kappa Delta Pi (Education); Omicron Delta Kappa (Leadership—Men); Phi Beta Kappa (Scholarship); Phi Eta Sigma (Freshman Scholarship—Men); Pi Mu Epsilon (Mathematics); Tau Kappa Alpha (Forensic); Tau Psi Omega (French); Theta Alpha Phi (Dramatic).

HONORARY ORDERS AND FRATERNITIES (LOCAL)

Beta Omega Sigma (Sophomore—Men); Delta Phi Rho Alpha (Athletic—Women); 9019 (Scholarship—Men); Ivy (Freshman Scholarship—Women);* Red Friars (Leadership—Men); Sandals (Sophomore—

* Inactive for duration of the war.

Women); Tombs (Athletic—Men); White Duchy (Leadership—Women).

ENGINEERING ORGANIZATIONS AND FRATERNITIES

American Institute of Electrical Engineers; American Society of Civil Engineers; American Society of Mechanical Engineers; Institute of the Aeronautical Sciences; Delta Epsilon Sigma (Duke Honorary Engineering Fraternity); Engineering Student Government Association; Engineering Town Boys' Club.

MUSICAL ORGANIZATIONS AND FRATERNITIES

Kappa Kappa Psi (National Band Fraternity);* The Duke University Instrumental Music Association, comprised of members from Duke University Band, Duke University Orchestra, and chamber music groups;* The Men's Glee Club; The Women's Glee Club; The University Chapel Choir; The Woman's College Orchestra; The Woman's Music Study Club.

SOCIAL FRATERNITIES (NATIONAL)

(The Men's Panhellenic Council)

Alpha Tau Omega; Beta Theta Pi; Chi Phi; Delta Sigma Phi; Delta Tau Delta; Kappa Alpha; Kappa Sigma; Lambda Chi Alpha; Phi Delta Theta; Phi Kappa Psi; Phi Kappa Sigma; Pi Kappa Alpha; Pi Kappa Phi; Sigma Alpha Epsilon; Sigma Chi; Sigma Nu; Sigma Phi Epsilon; Zeta Beta Tau.

SOCIAL SORORITIES (NATIONAL)

(The Women's Panhellenic Council)

Alpha Chi Omega; Alpha Delta Pi; Alpha Phi; Alpha Epsilon Phi; Delta Delta Delta; Delta Gamma; Kappa Alpha Theta; Kappa Delta; Kappa Kappa Gamma; Phi Mu; Pi Beta Phi; Sigma Kappa; Zeta Tau Alpha.

STUDENT PUBLICATIONS

(Publications Council)

Archive (Monthly); *Chanticleer* (Annual); *Chronicle* (Semiweekly); *Duke 'n' Duchess* (Monthly Humor);* *DukEngineer* (Bimonthly).

STUDENT ACTIVITIES OFFICE

The Student Activities Office was established for the purpose of assisting and co-ordinating the financial activities of the various student organizations in Trinity College.

The office offers to student organizations a banking service through the office of the University Treasurer.

There is no charge for this service.

The Student Activities Office, co-operating with the University Purchasing Department, also serves in the capacity of purchasing agent for its affiliated student organizations. Problems of a general nature having to do with extracurricular activities may be discussed with this office.

* Inactive for duration of the war.

THE GRADUATE SCHOOL OF ARTS AND SCIENCES

CALVIN BRYCE HOOVER, A.B., PH.D., LITT.D.
Dean

1943-1944
ANNOUNCEMENTS FOR 1944-1945

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GRADUATE INSTRUCTION IN DUKE UNIVERSITY

ADMISSION

TO GRADUATE COURSES

A student who has received the A.B. or B.S. degree for a four-year undergraduate course may be admitted to take graduate courses in the Graduate School of Arts and Sciences of Duke University, provided that his undergraduate record gives positive evidence of ability to undertake graduate study successfully. An average grade of not less than "B" is ordinarily accepted as evidence of such ability.

Applicants for admission are encouraged to take the Graduate Record Examination administered by the Graduate Record Office, 437 West 59th Street, New York City, which, on application, will suggest a convenient examination center. The scores made on this examination will be welcomed as an especially desirable credential. Students who take the Graduate Record Examination must make their arrangements directly with the Graduate Record Office, which charges a nominal fee of three dollars.

No college or university work taken before the Bachelor's degree is conferred, or fully earned, may be credited toward an advanced degree except under the following circumstances: A student of Duke University who lacks at the beginning of a term not more than nine semester hours of fulfilling the requirements for the Bachelor's degree may obtain permission from the Dean of the Graduate School to take during the term graduate courses sufficient to bring his total work to fifteen hours a week. Such graduate courses will be credited toward the degree of Master of Arts or Master of Education if registered in the Graduate School Office at the beginning of the term and if the student meets the requirements below for formal admission to the Graduate School.

A candidate for admission to graduate courses should ask the proper officer of the college(s) he attended to send directly to the Dean of the Graduate School an official transcript of his undergraduate record. An advanced student should provide also a transcript of the graduate work completed by him. In no case will a transcript presented by the candidate himself be accepted as a basis for admission, nor will a transcript mailed by any institution be returned to the student. An application blank for admission will be provided upon request to the Dean of the Graduate School. The transcript and application should be submitted to the Graduate School by September 1 for admission in the autumn semester and by January 15 for admission in the spring semester.

TO THE GRADUATE SCHOOL

After twelve semester hours of graduate work, the student may apply for admission to the Graduate School, and thus become a candidate for the Master's degree. Such admission is dependent upon the fulfillment

of two conditions. (1) The student must have made a mark of "G" or "Good" in at least three semester hours of work, with no mark less than "S." Candidates who cannot meet this condition may at a later time submit their records for re-evaluation, provided that in their subsequent work they shall have made a substantial number of "G's." (2) The student in his undergraduate work must have met substantially the requirements for the A.B. or B.S. degree at Duke University.* Any deficiencies of undergraduate work must be satisfied before admission to the Graduate School. Graduate courses taken at Duke University prior to formal admission to the Graduate School will count toward a higher degree provided they are in accord with its requirements and are acceptable to the major department. A graduate student may be requested to withdraw from the University at the discretion of the Dean of the Graduate School.

REGISTRATION

A student who is admitted to graduate courses will receive a permit to register, which he should present when he registers for courses. Before actually registering in the Graduate School Office, the student should consult with the Director of Graduate Studies or his representative in the department in which he proposes to major and receive written approval of his schedule of courses. This can be done during the registration period in September and January. The department concerned will determine whether a student is prepared to take any particular course. In all cases the student must make up without credit toward a graduate degree all prerequisites required by the major department of candidates for advanced degrees. Students who have fulfilled the minimum residence requirements for the doctorate but who are continuing resident study at Duke University for the degree should register in the Graduate School Office, even though there may be no fees to be charged.

New students are advised to arrive early during the registration period in order to formulate their programs. *Anyone registering for courses after the close of the regular registration period will be charged a late registration fee of five dollars.*

TUITION AND FEES

GENERAL FEES IN THE ACADEMIC YEAR

The following table shows the general fees and charges collected from all students and the special fees collected from those taking courses in the sciences. All fees for each semester are due and payable, unless otherwise specified, at the time of registration at the beginning of that semester. No student is admitted to classes until arrangements have been made with the Treasurer of the University for the settlement of fees.

* In meeting the requirements for the A.B. or B.S. degree at Duke University, a student is not allowed excessive concentration in any one field. The same principle is applied in evaluating the undergraduate record of candidates for admission to the Graduate School.

Matriculation, per semester	$ 25.00
Tuition, per semester	100.00
Room-rent—See detailed statement on pages 23-24.	
Athletic Fee, admitting students to all athletic contests held on the University grounds, per semester	5.00
Damage Fee, payable annually in September	1.00
Medical Fee, per semester	5.00
Library Fee, per semester	5.00
Commencement Fee, payable once by graduate students in the last semester before a degree is conferred	3.00
Diploma Fee, payable by candidates for degrees at the beginning of the second semester, refunded if the diploma is not awarded	5.00
Special Thesis Fee, payable by candidates for Ph.D. degree in the last semester before the degree is granted. Returned on satisfactory publication of thesis.	50.00

SPECIAL FEES

Graduate students in the sciences are required to pay the regular laboratory fees for courses as determined by the various departments. An administrative fee is charged in connection with special research work in the summer under direction of a member of the Faculty.

STUDENTS FROM THE UNIVERSITY OF NORTH CAROLINA GRADUATE SCHOOL

Under an experimental plan of co-operation between the University of North Carolina and Duke University, regular students from the University of North Carolina Graduate School admitted to courses in the Duke University Graduate School pay a registration fee of two dollars and any laboratory or special course fees which are required of all students.

TRANSCRIPTS

A student desiring to transfer from Duke University to another institution is entitled to one free transcript of his record. A charge of one dollar, payable in advance, is made for each additional copy. Transcripts of students who enroll in graduate courses only in the summer sessions are issued by the Summer Session Office prior to the fulfillment of all requirements toward an advanced degree, after which time they can be obtained in the regular way from the Graduate School.

PAYMENTS TO FELLOWS, SCHOLARS, AND GRADUATE ASSISTANTS

Payments by the University of stipends to fellows, scholars, and graduate assistants are made in four equal installments, approximately the middle and end of each semester. Tuition and fees are charged against the stipends.

Fellows and scholars are required to pay the regular tuition and fees and are expected to take a full program of work. Assistants who are permitted to register for only four fifths of a regular program are charged a proportionate amount of the tuition in addition to the regular matriculation and other minor fees.

SPECIAL CHARGES FOR TEACHERS AND OTHERS

For the purpose of aiding North Carolina teachers in their professional preparation, Duke University grants a special tuition rate to members of the faculties of near-by schools and colleges who desire to register during the regular academic session for one or two graduate courses. For such courses a teacher regularly employed and teaching while taking these courses is charged a registration fee of five dollars at the beginning of each semester and a tuition fee of three dollars per semester hour of course credit, together with any laboratory fees which may be required in these courses. Under this provision a student may not register for more than seven hours per week.

Employees of Duke University who are paid on a monthly basis throughout the year, ministers of near-by churches, and wives of the Duke Faculty may be included under the above provisions by the Dean of the Graduate School, provided that such persons do not receive residence credit in any semester for more than two fifths of a regular program in meeting the requirements for advanced degrees.

The special tuition rate for teachers does not apply in any case to the holders of fellowships, graduate scholarships, and graduate assistantships annually awarded in the Graduate School nor to teachers on leave of absence and not actually engaged in their teaching at the time of registration.

FELLOWSHIPS, SCHOLARSHIPS, AND ASSISTANTSHIPS

For the assistance and encouragement of graduate students of high character and marked ability, the University has established a considerable number of fellowships and scholarships. Holders of fellowships and scholarships will be expected to pay the tuition fee and such additional fees as are regularly required. Applications for these appointments should be received on or before March 1 of each year. In case vacancies occur, applications submitted on a later date will be considered. Appointments which were offered for the year 1944-45 are listed below.

FELLOWSHIPS

One Angier Duke Memorial Fellowship of one thousand dollars.

Twenty university fellowships with stipends varying from six hundred to eight hundred and fifty dollars each.

Two Gurney Harriss Kearns Fellowships in Religion of seven hundred dollars each.

Fellows will be required to give a limited amount of assistance in reading papers, in laboratories, or in other departmental duties. All fellows carry a full program of graduate work.

GRADUATE SCHOLARSHIPS

Twenty-five graduate scholarships with stipends varying from four hundred to four hundred and fifty dollars each.

Scholars may be asked to give a limited amount of assistance in departmental work. They normally carry a full program of graduate studies.

CHARLES W. HARGITT RESEARCH FELLOWSHIP IN ZOOLOGY

The Charles W. Hargitt Research Fellowship in Zoology, carrying a stipend of $1,000, is restricted to research work in the field of *Cytology*. Appointment is for a single year, with the possibility of reappointment. The fellowship is primarily for postdoctoral research. Inquiries and applications should be made to Dr. George T. Hargitt, Biology Building, Duke University, Durham, North Carolina.

FELLOWSHIPS AND GRADUATE SCHOLARSHIPS IN FORESTRY

Information regarding special fellowships and graduate scholarships in forestry may be obtained before March 1, 1945, from the Dean of the School of Forestry, Duke University, Durham, North Carolina.

APPOINTMENTS AS GRADUATE ASSISTANTS

A considerable number of appointments as teaching assistants or readers will be available for graduate students. The compensation will usually range from $300 to $700, depending upon the nature and amount of the work assigned. Assistants receiving $500 or more will be registered for four fifths of a normal program of studies and accordingly will receive four-fifths residence credit. Assistants in this classification will be charged four fifths of the tuition fee, and the same matriculation and minor fees as other students.

THE LIBRARY

The total number of volumes in the University Libraries on June 30, 1943, was 681,032 volumes. These are distributed among four main units: the General Library with 507,894 volumes; the Hospital (Medical) Library, 40,284 volumes; the Library of the Law School, 74,098 volumes; and the Woman's College Library, 58,756 volumes.

The work of students in the Graduate School is carried on primarily in the General Library. A Graduate Reading Room, which contains the reference material most in demand, provides a quiet and convenient place for study. Graduate students are also admitted freely to the stacks. Within the stacks are located 108 carrells or desks which are assigned on an annual basis, preference being given to students in the Graduate School. To facilitate work in the natural sciences, the General Library maintains departmental libraries adjacent to laboratories for the Departments of Chemistry, Physics, and Biology. Departmental libraries are also maintained for the Divinity School, the College of Engineering, and the School of Forestry.

In the field of mathematics and the sciences particular attention has been given to securing files of important journals and serials. A checklist of all scientific periodicals and serials on the University campus shows a total of approximately 2,460 files in a more or less complete form. The total number of current periodicals received by subscription, exchange, and gift in 1942-43 was 2,876, exclusive of duplicates.

In the field of the social sciences and the humanities every effort has been made to secure the basic collections of source material as well as the

more important publications of criticism and discussion. This has been done by the acquistion of such sets as the *Die Griechischen Christlichen Schriftsteller der ersten drei Jahrhunderte, Corpus Scriptorum Ecclesiasticorum Latinorum,* Migne's *Patrologia,* the *Corpus Scriptorum Historia Byzantiae,* the *Monumenta Germaniae Historica,* the *Acta Sanctorum,* the *Corpus Reformatorum,* the catalogues of the manuscript collections of the larger European libraries, complete files of the publications of the League of Nations, the International Labor Office, and many others. The endeavor to select the more important items in the various fields of graduate work has been supplemented by the purchase of a number of special collections and libraries. Among the more important of these might be mentioned a Peruvian library of approximately seven thousand books and manuscripts; a library of several thousand volumes dealing with Brazil; the Robertson library of Philippiniana; the Lanson Collection of French literature consisting of twelve thousand books and monographs; a Goethe collection of one thousand volumes; a Scandinavian collection of three thousand volumes; a collection of about five thousand items of early Americana, dating from the seventeenth century to 1820; the Holl church history library dealing primarily with the period of the Reformation; a collection of many thousands of church minutes and records of American denominational history; two collections of eighteenth-century English poetry and prose totaling about five thousand items; two special collections, one dealing primarily with Byron and the other with Coleridge, containing a number of manuscripts, annotated copies, and first editions; a collection of material on the Fourier movement; and the Thomas Collection of books on Chinese history and culture. Special mention should be made of the George Washington Flowers Collection of manuscripts, books, newspapers, and pamphlets dealing with all phases of Southern history, and of the Trent Collection of Walt Whitman books and manuscripts.

Public Documents

The importance of public documents as fundamental source materials for the social sciences and as containing also some of the most important work in the field of applied science is being clearly recognized, and an excellent start has been made toward a comprehensive collection of this material. The Library has been a depository for Federal documents since 1890. State documentary publications are also being systematically collected in co-operation with the University of North Carolina. Of European public documents a representative collection has been secured. Among the more notable items might be mentioned the *British Parliamentary Papers* (since 1925), *Calendar of State Papers,* the *Acts of the Privy Council, Hansard's Debates,* the *Débats Parlementaires* of the French Senate and Chamber of Deputies, the *Journal Officiel de la République Française,* the *Bulletin des Lois de la République Française,* the *Reichsgesetzblatt,* the *Verhandlungen des Reichstages,* the *Atti* of the Italian Parliament, and the *Diario* of the Spanish Cortes. The public documents

of the Latin-American countries, especially Argentina, Brazil, Chile, and Peru, form one of the strongest units of the Library.

Under this heading should be mentioned also the Library of Professor Louis Strisower, Sometime President of the Institute de Droit International, which contains approximately five thousand volumes dealing with international law. The volumes date from the seventeenth century to the present and contain some especially valuable periodical files and rare books.

PUBLICATIONS OF EUROPEAN ACADEMIES

The Duke University Library has the publications of many of the European academies, containing monographs in most of the fields of knowledge and constituting important sources for the research programs of graduate students and Faculty. The sets comprise about two thousand volumes and include *Preussische Akademie der Wissenschaften* (Berlin); *Gesellschaft der Wissenschaften zu Göttingen; Sächsische Akademie der Wissenschaften* (Leipzig); *Bayerische Akademie der Wissenschaften* (Munich); *Heidelberger Akademie der Wissenschaften; Akademie der Wissenschaften* (Vienna); *Académie des sciences* (Paris); *Académie des inscriptions et belles-lettres* (Paris); *Académie des sciences morales et politiques* (Paris); *Accademia nazionale dei lincei; Accademia pontificia dei nuova lincei* (Rome); *Real academias española* (Madrid); *Academia de la historia* (Madrid); *Akademia nauk* (Leningrad); *Dansk videnskabernes selskab* (Copenhagen); *Norsk videnskapsakademi i Oslo; Akademie van Wetenschappen* (Amsterdam); *Académie royale des sciences, des lettres et des beaux-arts de Belgique* (Brussels); *Akademija umiejetnosci* (Krakow).

NEWSPAPERS

The Library collection of newspapers contains around twelve thousand volumes. Practically all states of the Union are represented, although the major part of the collection is from along the Atlantic seaboard. Of the eighteenth-century items, the states best represented are Massachusetts, Maryland, New York, Rhode Island, Virginia, North Carolina, South Carolina, and Georgia. There is an excellent collection of nineteenth-century New England papers. The World War period is unusually strong with about twenty-eight titles practically complete for 1914-19. There is a group of papers from Germany in the years just after the World War. Special emphasis has been placed on the Southern States, and there are numerous volumes of papers from North Carolina, South Carolina, and Virginia, representing the Colonial period, the Ante-Bellum period, and the Civil War period. The current subscription list of seventy-seven titles represents American public opinion and contains fourteen important foreign titles.

MANUSCRIPTS

The manuscript collection now contains approximately 845,000 items relating chiefly to the South Atlantic region. Most numerous are rec-

ords of military, social, and economic life in the Confederate period including letters, diaries, rosters, military reports, statutes of the Confederate Congress, court records, and papers of various departments of the Confederate Government. Outstanding among the many papers providing a well-rounded picture of life in the South during the nineteenth century are original census returns of Georgia, Kentucky, Louisiana, and Tennessee for 1850 and 1860. The collection, most copious in the field of history, contains information on all phases of social and economic life as well as politics. Numerous large collections bear particularly on the history of Alabama, Georgia, North Carolina, South Carolina, and Virginia. Of interest for historical studies are the papers of P. G. T. Beauregard, John C. Calhoun, David Campbell, Robert Carter, Clement C. Clay, Henry Clay, William H. Crawford, John J. Crittenden, Jefferson Davis, Nathanael Greene, Andrew Jackson, Robert E. Lee, Alfred T. Mahan, Alexander H. Stephens, and others. The field of American literature is represented by papers of Thomas Holley Chivers, John Esten Cooke, Clara V. Dargan, Paul Hamilton Hayne, George Frederick Holmes, Alexander B. Meek, Thomas Nelson Page, Augustine L. Taveau, and Walt Whitman. Among the non-Southern materials there are interesting groups of papers centering on George Moore, the Rossettis, Robert Southey, and Tennyson. Of the medieval manuscripts, consisting chiefly of lectionaries and copies of the New Testament, one thirteenth-century New Testament in Greek is noteworthy. The library has recently acquired the official files of the Socialist Party of America extending from 1901 to 1938, and a collection of the papers of George Holyoake.

Exchange Privileges with the Library of the University of North Carolina

The libraries of Duke University and of the University of North Carolina have completed arrangements for the fullest exchange of privileges and resources. Each library contains a catalogue of the contents of the other, and books requested from the other library are supplied through a delivery service which operates weekly. Faculty members and graduate students may secure cards admitting them to the stacks of the other library. The Library of the University of North Carolina contains approximately 450,000 volumes, besides a large collection of manuscripts relating to Southern history. Under this arrangement more than 1,150,000 volumes are available to students in the combined libraries.

SCIENCE LABORATORIES

BIOLOGICAL LABORATORIES

The Biology Building on the West Campus contains three refrigerated rooms, an incineration room, a workshop, an aquarium room, five animal rooms connected with outside yards, and eight dark rooms. Special laboratories are provided for advanced work in plant and animal physiology, parasitology, cytology, taxonomy, bacteriology, ecology, histology, my-

cology, anatomy, embryology, endocrinology, entomology, forest soils, and wood anatomy and properties. A 300-acre arboretum is being developed adjacent to the campus with Dr. E. S. Harrar in charge. A greenhouse gives adequate space for experimental work and propagation. There is an herbarium of some fifty thousand specimens of all plant groups with a large representation of the Southern flora. Dr. H. J. Oosting is Curator of the Herbarium, and Dr. I. E. Gray is the Curator of the Zoological Museum. On the East Campus, laboratories are provided for undergraduate women, and there is a small greenhouse near the Science Building. Laboratories and rooms for students doing research are equipped with vacuum, compressed air, direct and alternating current, gas, and running water. Proper equipment and supplies for biological work are available.

The Duke Forest and its streams provide excellent collecting grounds. The Duke Forest is under the management of the School of Forestry. Duke University is situated in the Piedmont region, between the mountains and the coastal plains. This gives easy access to a varied flora and fauna. North Carolina is the home of the tulip poplar, holly, rhododendron, mountain laurel, flowering dogwood, several species of insect-catching plants, cypress, and other interesting plants. Among the animals are a varied assortment which range from marine to mountain species. In the woods about the University there is a great variety of animals.

The Duke Marine Laboratory at Beaufort, North Carolina, provides facilities for work on plants and animals in and near the ocean. It is situated on Piver's Island, adjacent to the Biological Laboratory of the United States Fish and Wildlife Service. Dr. A. S. Pearse is Director.

PHYSICAL LABORATORIES

The physical laboratory contains approximately an acre of floor space which is devoted to instruction and research. In addition to the usual lecture and elementary laboratory facilities, laboratories are provided for work in electrical measurements, optics, atomic physics, and advanced measurements in general physics.

Rooms are provided for various instruments of research in spectroscopy, such as a 10-foot concave grating which is used in conjunction with a 32-meter-long stainless steel pipe for study of weak absorption; a vacuum spectrograph with a 2-meter glass grating; an apparatus for the study of the Raman spectra of gases photographed with a large 3-prism glass f 2.5 glass Zeiss spectrograph and various other spectroscopic instruments, such as the Hilger E-1, Moll microphotometer, etc.

Research facilities, such as counters, cloud chambers and ionization chambers, are available for the study of the properties of extremely high energy particles such as those present in the cosmic radiation.

A well-equipped shop operated by trained instrument makers makes possible the development of instructional and research apparatus. A shop is also provided for the use of the Staff and graduate students.

CHEMICAL LABORATORIES

Graduate work in chemistry is carried on in a modern building with a floor area of about 57,000 square feet. Of this total space a large proportion is available for research and advanced teaching. There are twenty-five double research rooms completely equipped with the usual services. In addition, a number of specially designed rooms are available for present or future research, such as a photographic room, constant temperature room, distillation room, combustion room, bomb room, and rooms equipped for dielectric constant and magnetic measurements.

A glass-blowing room and a well-equipped shop, operated by a competent mechanic, provide facilities for the construction of special apparatus and for the repair and maintenance of instruments.

MEDICAL SCHOOL

In the School of Medicine elaborate facilities are provided for post-graduate research in the various branches of medical science. The Departments of Anatomy, Bacteriology and Immunology, Biochemistry, and of Physiology, Pharmacology, and Nutrition offer certain courses and adequate research facilities to students in the Graduate School of Arts and Sciences. The use of the Duke Hosptial Library is available to all graduate students.

THE DUKE FOREST

Through placing the Duke Forest under intensive management for forestry purposes, substantial progress has been made in developing the educational work and research in forestry. The Duke Forest consists of approximately six thousand acres of land, most of which is adjacent and easily accessible to the University campus. Situated in the lower Piedmont region and composed of second-growth shortleaf pine, loblolly pine, and hardwoods, the Forest is representative of the various types of timber growth and soils found throughout the region.

The proximity of the Forest to the laboratories, greenhouses, and library facilities of the University provides an excellent opportunity for advanced study and research in forestry. Research, particularly in the fields of silvics, forest soils, silviculture, forest management, properties of wood, forest-tree physiology, and forest pathology, is well under way. Several members of the Botany and Zoology Staffs are also engaged on research in the Duke Forest.

For additional information see the *Bulletin of the School of Forestry*.

ENCOURAGEMENT OF RESEARCH

The President of the University appoints annually a University Council on Research. The members of this Council are chosen from the Faculties of the Schools of Medicine and Law, the Divinity School, and the Graduate School of Arts and Sciences. In May of each year the Council on Research receives written applications from members of the Faculty for subsidies to be used in the following fiscal year to aid them in

carrying out research projects. Stipends are granted for the employment of research assistants, for the purchase of books, and for apparatus, supplies, and equipment. Each member of the Faculty to whom a research stipend is granted must make a written report within twelve months to the Council concerning the progress of the investigation for which the stipend was allowed.

SPECIAL LECTURES

During each academic year the University Lecture Committee arranges for a number of special lectures of value to graduate students interested in various fields of knowledge. The Woman's College Lecture Series brings other guests to the campus. In addition to these lectures, a number of distinguished speakers appear each year on the programs of various schools and departments of the University.

Among the guest lecturers in 1943-44 were Lord Halifax, British Ambassador to the United States, and A. A. Berle, Assistant Secretary of State.

THE UNIVERSITY PRESS

In 1897 Trinity College began sponsoring the publication of "The Papers of the Trinity College Historical Society," which was distributed to members of the Society and on exchange to other institutions. This series was the first publishing venture of the College. In 1902, the 9019, an honor scholastic society on the campus, founded *The South Atlantic Quarterly,* which is now published by the Press.

In 1921 the Trinity College Press was established to publish the results of research engaged in by the Faculty and such other works as were approved by a board of editors appointed for the purpose. In 1925, with the acceptance of the benefaction of James B. Duke, Trinity College became one of the undergraduate colleges of Duke University, and the following year the University Press was organized to succeed the Trinity College Press.

One of the first steps of the new organization was to revive *The Hispanic American Historical Review,* which had been founded and published from 1918 to 1922 by a group of scholars interested in Hispanic America. Since 1926 its publication has been continued without interruption, and its mission has been supplemented by many studies dealing with the history, politics, and foreign relations of the Hispanic nations of the New World. In 1929 *American Literature* was begun with the co-operation of the American Literature Group of the Modern Language Association. This journal was followed in 1931 by *Ecological Monographs,* a quarterly sponsored by the Ecological Society of America, to take care of papers too long for inclusion in *Ecology. Character and Personality,* an international quarterly appearing simultaneously in the United States and Great Britain, was founded in 1932 as a medium for the publication of studies in fields related to this phase of psychology. In 1935 the Press started the publication of the *Duke Mathematical*

Journal, with the co-operation of the Mathematical Association of America, and in 1937 *The Journal of Parapsychology* for the publication of the results of research in extrasensory perception and related topics. For the Southern Association of Colleges and Secondary Schools, the Press publishes *The Southern Association Quarterly,* the official organ of the Association. The Law School of Duke University sponsors *Law and Contemporary Problems,* presenting a symposium of some important legal problem in each number.

Besides its books, monographs, and regular quarterly publications the Press issues "Contributions to Psychological Theory" and "Duke University Research Studies in Education," the latter sponsored by the Department of Education of the University.

Since its organization the Press has offered to the public the products of scholarly research to the number of more than one hundred and twenty-five volumes. It has not limited its scope to any one field or to any one group of authors. In addition to the many works submitted by members of the Faculty, a great number of titles by authors without a connection with the University have been issued under the imprint of the Press.

In the broadest sense, the present policy of the Press is to give to the public any scholarly work which, because of the merit of its contents, its style, and its general value, deserves publication.

COURSES OF INSTRUCTION

This is a condensed description of courses. For a full description, see Bulletin of the Graduate School.

Certain undergraduate courses are open to graduate students with the approval of the department. See the Bulletin of Undergraduate Instruction.

DIVISION OF ANCIENT LANGUAGES AND LITERATURES

PROFESSOR BRANSCOMB, CHAIRMAN—101 LIBRARY; PROFESSORS PEPPLER AND ROGERS; ASSOCIATE PROFESSORS CLARK AND STINESPRING; ASSISTANT PROFESSORS GATES AND WAY; DRS. GOLDIN, ROSE, AND TRUESDALE

GREEK

FOR SENIORS AND GRADUATES

201-202. Greek Tragedy.—6 s.h. PROFESSOR PEPPLER

203-204. Homer.—*Odyssey.* **Pindar and Bacchylides.** 6 s.h. ASSISTANT PROFESSOR WAY AND DR. TRUESDALE

205-206. Greek Historians.—6 s.h. PROFESSOR PEPPLER

207-208. Greek Orators.—6 s.h. ASSISTANT PROFESSOR WAY

209-210. Plato.—6 s.h. ASSISTANT PROFESSOR WAY

211-212. Aristophanes.—6 s.h. PROFESSOR PEPPLER

(Only one of the six courses listed above is offered each year.)

243. Athenian Topography.—3 s.h. ASSISTANT PROFESSOR WAY

244. Greek Epigraphy.—3 s.h. ASSISTANT PROFESSOR WAY

245. Greek Dialects.—3 s.h. ASSISTANT PROFESSOR WAY

246. Greek Historical Inscriptions.—3 s.h. ASSISTANT PROFESSOR WAY

247-248. Greek Archaeology.—6 s.h. ASSISTANT PROFESSOR WAY

(Of the courses numbered from 243 to 248, only two semester-courses are offered each year.)

257. Social and Cultural History of the Hellenistic World from Alexander to Augustus.—3 s.h. PROFESSOR ROGERS AND DR. TRUESDALE

FOR GRADUATES

The more advanced work of the graduate department is done in the seminar. One author or group of authors forms the center of study each year. Seminars are offered in **Aristophanes (301-302)**, **The Greek Historians (303-304)**, **The Attic Orators (305-306)**, and **The Greek Tragic Poets (307-308)**. These run through a cycle of four years. In 1944-45 the work will be:

301-302. Seminar in Aristophanes.—6 s.h. PROFESSOR PEPPLER

Graduate students of Duke University may attend the American School of Classical Studies in Athens, Greece, without charge for tuition, and they are

eligible to compete for the fellowships that are offered annually by the School. These consist of two fellowships in Greek archaeology, and one in the language, literature, and history of ancient Greece, each with a stipend of $1,300. They are awarded mainly on the basis of examinations held in the beginning of February of each year.

LATIN AND ROMAN STUDIES

FOR SENIORS AND GRADUATES

201. Roman Fiction.

202. Latin Christian Writers.

203-204. Roman Epic: Ennius, Vergil, Manilius, Lucan, Flaccus, Statius, Silius.—Not offered if 205-206 is given. 6 s.h. ASSISTANT PROFESSOR GATES

205-206. Roman Drama: Plautus, Terence, Seneca.—6 s.h.
ASSISTANT PROFESSOR GATES

207-208. Roman Philosophy.

209-210. Vulgar Latin: Introduction to Romance Philology.

211-212. Roman Oratory.—6 s.h. PROFESSOR ROGERS

215. Introduction to Roman Art and Archaeology.

216. Topography and Monuments of Ancient Rome.

251-252. Roman Life.

258. Social and Cultural History of the Graeco-Roman World.—3 s.h.
PROFESSOR ROGERS

281-282. Roman Historical Literature.

283-284. Roman Law.—6 s.h. PROFESSOR ROGERS

FOR GRADUATES

309-210. Sight Reading and Composition.—6 s.h. DR. ROSE

311-312. Latin Epigraphy.—6 s.h. PROFESSOR ROGERS

Seminars: Various authors or historical periods are selected from year to year as a basis for training in criticism and research. Seminars are offered in the following: Catullus (301-302), Roman Historians (331-332), Roman Provincial Administration (341-342), The Reign of Tiberius (343-344), Martial (351-352), Horace (361-362), Lucretius (371-372), and Cicero's Public Career (391-392). The seminar planned for 1944-45 is:

341-342. Roman Provincial Administration.—6 s.h. PROFESSOR ROGERS

LINGUISTICS

FOR GRADUATES

375-376. Greek and Latin Linguistics.—6 s.h. DR. ROSE

385-386. Elementary Sanskrit.—6 s.h. DR. ROSE

SEMITICS

FOR SENIORS AND GRADUATES

201-202. First Hebrew.—6 s.h. ASSOCIATE PROFESSOR STINESPRING

205-206. Elementary Arabic.—6 s.h. ASSOCIATE PROFESSOR STINESPRING

207-208. Second Hebrew.—6 s.h. ASSOCIATE PROFESSOR STINESPRING

FOR GRADUATES

304. Aramaic.—3 s.h. ASSOCIATE PROFESSOR STINESPRING

305. Third Hebrew.—3 s.h. ASSOCIATE PROFESSOR STINESPRING

309. History of the Ancient Near East.—3 s.h. ASSOCIATE PROFESSOR STINESPRING

315. Judaism at the Beginning of the Christian Era.—3 s.h. DR. GOLDIN

RELATED COURSES IN OTHER DEPARTMENTS

Philosophy 217. Philosophy of Aristotle.—3 s.h. DR. MCLARTY

Religion 218. Galatians and I Corinthians.—3 s.h. PROFESSOR BRANSCOMB

Religion 316. Hellenistic Religions at the Beginning of the Christian Era.—3 s.h. ASSOCIATE PROFESSOR CLARK

Religion 318. Text of New Testament.—3 s.h. ASSOCIATE PROFESSOR CLARK

Religion 320. Rabbinic Literature.—3 s.h. DR. GOLDIN

BOTANY

PROFESSOR BLOMQUIST, CHAIRMAN—203 BIOLOGY BUILDING; PROFESSOR WOLF, DIRECTOR OF GRADUATE STUDIES—315 BIOLOGY BUILDING; PROFESSOR BEAL; ASSOCIATE PROFESSORS ADDOMS, HARRAR, AND KRAMER; ASSISTANT PROFESSORS ANDERSON, OOSTING, AND PERRY

FOR SENIORS AND GRADUATES

202. Genetics.—Prerequisites: one year of botany, zoology, or equivalent, and college algebra. 4 s.h. ASSISTANT PROFESSOR PERRY

203. Plant Cytology.—Prerequisite: one year of botany. 4 s.h. [Not offered in 1944-45] ASSISTANT PROFESSOR ANDERSON

204. Advanced Plant Anatomy.—Prerequisite: Botany 55 or equivalent. 4 s.h. ASSOCIATE PROFESSOR ADDOMS

216. Botanical Microtechnique.—Prerequisite: two semesters of botany. 4 s.h. ASSOCIATE PROFESSOR ADDOMS

221. Structure and Classification of Fungi.—Prerequisite: two semesters of botany. 4 s.h. PROFESSOR WOLF

225-226. Special Problems.—Credits to be arranged.

(a) Bacteriology, Mycology, and Plant Pathology. PROFESSOR WOLF

(b) Cytology. [Not offered in 1944-45] ASSISTANT PROFESSOR ANDERSON

(c) Ecology. ASSISTANT PROFESSOR OOSTING

(d) Genetics. ASSISTANT PROFESSOR PERRY

(e) Morphology and Anatomy of Higher Plants. ASSOCIATE PROFESSORS ADDOMS AND HARRAR, ASSISTANT PROFESSOR OOSTING

(f) **Morphology and Taxonomy of Lower Groups.** Professor Blomquist

(g) **Physiology.** Associate Professors Addoms and Kramer

(h) **Plant Microchemistry.** Associate Professor Addoms

(i) **Taxonomy of Higher Groups.** Professor Blomquist

252. **Advanced Plant Physiology.**—Prerequisite: Botany 151 or equivalent; organic chemistry recommended. 4 s.h. Associate Professor Kramer

255. **Advanced Taxonomy.**—Prerequisite: two years of botany, including Botany 52 or equivalent. 4 s.h. Professor Blomquist

256. **Field Ecology.**—Prerequisites: Botany 1, 2 and 52, or equivalent. 4 s.h. Assistant Professor Oosting

FOR GRADUATES

305. **Plant Geography.**—Prerequisite: Botany 156 or equivalent. 4 s.h. Assistant Professor Oosting

310. **Structure and Classification of Bryophytes and Pteridophytes.**—Prerequisite: two years of botany. 4 s.h. Professor Bomquist

311. **Structure and Classification of Algae.**—Prerequisite: two years of botany. 4 s.h. Professor Blomquist

341. **Methods in Plant Physiology.**—4 s.h. Associate Professor Kramer
342. **Plant Microchemistry.**—2 s.h. Associate Professor Addoms

359-360. **Research in Botany.**—Credits to be arranged. Staff

397-398. **General Botanical Seminar.**—2 s.h. Staff

FOREST BOTANY

FOR SENIORS AND GRADUATES

224. **Forest Pathology.**—Prerequisites: Botany 1, 2. 3 or 4 s.h. Professor Wolf

253. **Dendrology.**—Prerequisite: one year of botany. 3 s.h. Professor Beal

RELATED COURSES IN OTHER DEPARTMENTS

These related courses may be counted toward a major in botany.

Zoology 341. **Historical and Philosophical Zoology.**—2 s.h. Professor Hargitt

Forestry 257. **Design of Forestry Experiments and Analysis of Data.**—5 s.h. Professor Schumacher

CHEMISTRY

PROFESSOR GROSS, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—219 CHEMISTRY BUILDING; PROFESSORS BIGELOW, LONDON, VOSBURGH, AND WILSON; ASSOCIATE PROFESSORS HAUSER AND SAYLOR; ASSISTANT PROFESSORS BROWN, HILL, AND HOBBS; DR. BRADSHER

FOR SENIORS AND GRADUATES

215-216. **Advanced Inorganic Chemistry.**—Prerequisites: Chemistry 70 and 151-152. Chemistry 261-262, Physics 59-60 or 213-214, and ability to read German are desirable. 6 s.h. Assistant Professor Hill and Professor Vosburgh

Chemistry 233-234. Instrumental Analysis.—Prerequisites: Chemistry 70 and 261-262. 2 s.h. PROFESSOR VOSBURGH AND ASSOCIATE PROFESSOR SAYLOR

Chemistry 236. Theory of Analytical Chemistry.—Prerequisites: Chemistry 70 and 261-262. 1 s.h. PROFESSOR VOSBURGH

241. **Physiological Chemistry.**—Prerequisites: Chemistry 70 and 151-152. Course 261-262 is desirable though not required. 4 s.h. PROFESSOR WILSON

242. **Metabolism.**—Two lectures, credit 2 s.h., and 6 laboratory hours, credit 2 s.h. 4 s.h. PROFESSOR WILSON

253-254. **Advanced Organic Chemistry.**—Prerequisites: Chemistry 151-152 or equivalent and a reading knowledge of German. 6 or 8 s.h.
PROFESSOR BIGELOW, ASSOCIATE PROFESSOR HAUSER, AND ASSISTANT PROFESSOR BROWN

261-262. **Physical Chemistry.**—Prerequisites: Chemistry 70, 151-152, Physics 1-2 or equivalent, and Mathematics 8 or 51-52 are required except by special permission of the Department. 6 s.h.
PROFESSOR GROSS, ASSOCIATE PROFESSOR SAYLOR, AND ASSISTANT PROFESSOR HOBBS

265-266. **Chemical Physics. Statistical Theory, Principles and Applications.**—8 s.h. PROFESSOR LONDON

267-268. **Chemical Physics. Theoretical Aspects of Atomic and Molecular Structure.**—8 s.h. PROFESSOR LONDON

271. **Introduction to Research.**—1 s.h.
PROFESSORS BIGELOW, GROSS, AND VOSBURGH

273-274. **Seminar.**—2 s.h.
PROFESSORS BIGELOW, GROSS, AND VOSBURGH; ASSOCIATE PROFESSORS HAUSER AND SAYLOR; ASSISTANT PROFESSORS BROWN, HILL, AND HOBBS; AND DR. BRADSHER

275-276. **Research.**—3 or 6 s.h.
PROFESSORS BIGELOW, GROSS, LONDON, AND VOSBURGH; ASSOCIATE PROFESSORS HAUSER AND SAYLOR; ASSISTANT PROFESSORS BROWN, HILL, AND HOBBS; AND DR. BRADSHER

FOR GRADUATES

303. **Thermodynamics.**—3 s.h. PROFESSORS GROSS AND SPONER

304. **Chemical Thermodynamics.**—3 s.h.
PROFESSORS GROSS AND VOSBURGH, AND ASSOCIATE PROFESSOR SAYLOR

351-352. **Advanced Synthetic Organic Chemistry.**—2 s.h.
PROFESSOR BIGELOW AND ASSOCIATE PROFESSOR HAUSER

363-364. **Advanced Physical Chemistry.**—Prerequisites: Chemistry 261-262 or its equivalent and calculus. 6 s.h.
PROFESSORS GROSS AND VOSBURGH; ASSOCIATE PROFESSOR SAYLOR; ASSISTANT PROFESSORS HILL AND HOBBS

RELATED COURSES IN OTHER DEPARTMENTS

BIOCHEMISTRY

M241. General Biochemistry.—Prerequisites: general chemistry, organic chemistry, elementary physical and analytical chemistry, and at least one year of college biology. May-Aug., 1944. 6 s.h.
DRS. PERLZWEIG AND TAYLOR, AND STAFF

M242. Biochemical Preparations.—Prerequisite: Biochemistry M241. 2 s.h. DR. TAYLOR AND STAFF

M243-244. Physical Chemistry and Colloid Chemical Principles of Biochemistry. DR. NEURATH

M341. Pathological Chemistry.—Prerequisite: Biochemistry M241 and Physiology M261-2. DRS. PERLZWEIG, TAYLOR, AND M. L. C. BERNHEIM

M343. Immunochemistry.—2 s.h. DRS. MARTIN AND NEURATH

M363-364. Advanced Seminar in Nutrition.—Prerequisites: Biochemistry M241 and Physiology M261 or equivalents. 4 s.h. DR. DANN

ECONOMICS

PROFESSOR HOOVER, CHAIRMAN—103 ADMINISTRATION BUILDING; PROFESSOR HAMILTON, DIRECTOR OF GRADUATE STUDIES—503 LIBRARY; PROFESSORS DE VYVER, RATCHFORD, SPENGLER, AND VON BECKERATH; ASSOCIATE PROFESSORS BLACK AND LESTER; ASSISTANT PROFESSORS SPRINGER AND WELFLING

FOR SENIORS AND GRADUATES

217. Population Problems and Resources.—3 s.h. PROFESSOR SPENGLER

218. Business Cycles.—3 s.h. ASSOCIATE PROFESSOR LESTER

230. Public Debts in the United States.—3 s.h. PROFESSOR RATCHFORD

231. The Economic History of Modern Europe.—3 s.h.
PROFESSOR HAMILTON

232. The Economic History of the United States.—3 s.h.
PROFESSOR HAMILTON

233. State and Local Finance.—3 s.h. PROFESSOR RATCHFORD

234. Federal Finance.—3 s.h. PROFESSOR RATCHFORD

237-238. Statistical Methods.—Prerequisite: Economics 138 or consent of the instructor. 6 s.h. ASSISTANT PROFESSOR SPRINGER

239. Prices.—3 s.h. PROFESSOR HAMILTON

241-242. Value and Distribution.—6 s.h. PROFESSOR SPENGLER

245. Problems of Modern Industrialism.—3 s.h.
PROFESSOR VON BECKERATH

253. Labor Problems.—3 s.h. PROFESSOR DE VYVER

256. Labor Legislation.—3 s.h. PROFESSOR DE VYVER

260. Social Insurance.—3 s.h. PROFESSOR DE VYVER

265. International Trade and Tariff Policies.—3 s.h.
PROFESSOR VON BECKERATH

266. International Finance.—3 s.h. ASSOCIATE PROFESSOR LESTER

268. Competitive versus Monopolistic Enterprise.—3 s.h.
PROFESSOR VON BECKERATH

270. Economics of War.—3 s.h.
PROFESSORS HAMILTON AND VON BECKERATH

275-276. Advanced Industrial Accounting and Management.—6 s.h.
ASSOCIATE PROFESSOR BLACK

FOR GRADUATES

311-312. History of Political Economy.—6 s.h. PROFESSOR HAMILTON

313-314. Seminar in Economic Theory.—Prerequisite: Economics 241-242 or its equivalent. 6 s.h. PROFESSOR HOOVER

315. Economic Systems.—Credit for this course will be given only if the student takes Economics 316. 3 s.h. PROFESSOR HOOVER

316. Economic Functions of the State.—Prerequisite: Economics 315 or its equivalent. 3 s.h. PROFESSOR HOOVER

318. General Seminar in Economics.—No credit. STAFF

RELATED COURSES IN OTHER DEPARTMENTS

Attention is called to the following courses in related departments:

Forestry 279. Economics of Forestry.—3 s.h. PROFESSOR WACKERMAN

History 219-220. The History of the European Proletariat.—6 s.h.
[Not offered in 1944-45] PROFESSOR CARROLL

Political Science 207. American Constitutional Law and Theory.—3 s.h.
PROFESSOR WILSON

EDUCATION

PROFESSOR HOLTON, CHAIRMAN—104 PAGE AUDITORIUM; PROFESSOR BROWNELL, DIRECTOR OF GRADUATE STUDIES—1C WEST DUKE BUILDING; PROFESSORS CARR, CHILDS, AND PROCTOR; ASSOCIATE PROFESSOR SCATES; ASSISTANT PROFESSOR EASLEY; VISITING ASSISTANT PROFESSOR VAN ALSTYNE

ELEMENTARY EDUCATION

FOR SENIORS AND GRADUATES

207. Technique of Teaching.—3 s.h. PROFESSOR CARR
[Not offered in 1944-45]

212. Psychology of the Elementary School Subjects.—3 s.h.
PROFESSOR CARR

222. The Curriculum and Materials of the Elementary Grades.—3 s.h.
PROFESSOR CARR

232. Elementary School Supervision.—3 s.h. PROFESSOR CARR
[Not offered in 1944-45]

FOR GRADUATES

305. The Nature, Function, and Reorganization of the Curriculum.—3 s.h.
PROFESSOR CARR

EXPERIMENTAL EDUCATION AND EDUCATIONAL PSYCHOLOGY

FOR SENIORS AND GRADUATES

208A. Mental Tests and Applications.—Prerequisite: course 258 or six semester hours of other work in educational psychology or psychology. 3 s.h.
ASSISTANT PROFESSOR VAN ALSTYNE

208B. Practicum.—2 s.h. ASSISTANT PROFESSOR VAN ALSTYNE

209. Statistical Methods Applied to Education.—2 s.h.
ASSOCIATE PROFESSOR SCATES

216. Psychological Principles of Secondary Education.—3 s.h.
[Not offered in 1944-45] PROFESSOR CHILDS

218. Educational Implications of Genetic Psychology.—Prerequisite: six semester hours of psychology or educational psychology. 3 s.h.
PROFESSOR BROWNELL

219. Experimental Education.—3 s.h. PROFESSOR BROWNELL

227. The Psychology of Learning: Problems.—3 s.h.
[Not offered in 1944-45] ASSISTANT PROFESSOR EASLEY

228. The Psychology of Learning: Theoretical and Experimental.—Prerequisite: course 227 or its equivalent.—3 s.h.
[Not offered in 1944-45] ASSISTANT PROFESSOR EASLEY

237. Investigations in Reading.—3 s.h. PROFESSOR CARR

247. Investigations in Arithmetic.—3 s.h. PROFESSOR BROWNELL

258. Educational Measurements.—Prerequisite: twelve semester hours in the Department, including a course in educational psychology. 3 s.h.
ASSOCIATE PROFESSOR SCATES

FOR GRADUATES

307-308. Seminar in Educational Psychology.—4 s.h. PROFESSOR BROWNELL
[Not offered in 1944-45]

309-310. Research in Educational Psychology.—3 to 6 s.h.
PROFESSOR BROWNELL

317. The Psychological Principles of Education.—3 s.h.
PROFESSOR BROWNELL

320. Advanced Educational Statistics.—3 s.h.
ASSOCIATE PROFESSOR SCATES

338. Research in Reading.—3 s.h. PROFESSOR CARR
[Not offered in 1944-45]

339. Research Course in Educational Tests.—Prerequisite: the equivalent of course 258. 3 s.h. ASSOCIATE PROFESSOR SCATES

348. Research in Arithmetic.—3 s.h. PROFESSOR BROWNELL
[Not offered in 1944-45]

HISTORY AND PHILOSOPHY OF EDUCATION

FOR SENIORS AND GRADUATES

200. Introduction to the Philosophy of Education.—3 s.h.
[Not offered in 1944-45] PROFESSOR HOLTON

214. History of Education in the United States.—3 s.h. PROFESSOR HOLTON
[Not offered in 1944-45]

244. Studies in the Historical Development of Public School Administration.—3 s.h. PROFESSOR HOLTON
[Not offered in 1944-45]

254. History of Secondary Education in the United States.—3 s.h.
PROFESSOR PROCTOR

264. Recent Movements in American Education.—3 s.h.
PROFESSOR HOLTON

294. Comparative Education: Recent Movements in European Educational Systems.—3 s.h. PROFESSOR CARR
[Not offered in 1944-45]

304. The School as an Institution.—3 s.h. PROFESSOR HOLTON

PUBLIC SCHOOL ADMINISTRATION

FOR SENIORS AND GRADUATES

203. Principles of School Administration.—Prerequisite: Education 103 and 58, or six semester hours of equivalent work in education. 3 s.h.
[Not offered in 1944-45] PROFESSOR PROCTOR

213. Problems in the Organization and Administration of the Elementary School.—3 s.h. PROFESSOR PROCTOR

233. Administrative Pupil-Accounting.—3 s.h. PROFESSOR PROCTOR

234. Secondary School Organization and Administration.—3 s.h.
PROFESSOR PROCTOR

253. Legal Phases of School Administration.—3 s.h. PROFESSOR HOLTON
[Not offered in 1944-45]

FOR GRADUATES

323. Public School Finance.—3 s.h. PROFESSOR PROCTOR
[Not offered in 1944-45]

343. State and County School Administration.—3 s.h. PROFESSOR PROCTOR
[Not offered in 1944-45]

363. City School Administration.—3 s.h. PROFESSOR PROCTOR
[Not offered in 1944-45]

SECONDARY EDUCATION AND EDUCATIONAL SOCIOLOGY

FOR SENIORS AND GRADUATES

205. Curriculum Problems in Secondary Education.—3 s.h.
PROFESSOR CHILDS

206. Sociological Foundations of the Secondary School Subjects.—Prerequisites: six semester hours in education, including course 105. 3 s.h.
[Not offered in 1944-45] PROFESSOR CHILDS

215. Educational and Vocational Guidance.—Prerequisite: twelve semester hours in the Department, including course 105 or course 206. 3 s.h.
PROFESSOR CHILDS

225. The Teaching of History and the Social Studies.—3 s.h.
ASSOCIATE PROFESSOR MANCHESTER

246. The Teaching of Mathematics.—3 s.h. PROFESSOR RANKIN
[Not offered unless justified by enrollment]

266. The Teaching of High-School French.—3 s.h. PROFESSOR WEBB

METHODOLOGY OF RESEARCH

FOR GRADUATES

300. Methods of Educational Research: Seminar.—3 s.h.
MEMBERS OF THE DEPARTMENT

RELATED COURSES IN OTHER DEPARTMENTS

FOR MAJORS IN EDUCATIONAL PSYCHOLOGY, ELEMENTARY EDUCATION, AND SECONDARY EDUCATION

Psychology 206. Social Psychology.—3 s.h. ASSOCIATE PROFESSOR ADAMS
[First semester only]

Psychology 209. Experimental Methods in Human Psychology.—4 s.h.
ASSOCIATE PROFESSOR ZENER

Psychology 212. Physiological Psychology.—3 s.h.
[Not offered in 1944-45] ASSISTANT PROFESSOR KEMP

Psychology 215. Developmental Psychology.—3 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR ADAMS

Psychology 226. Contemporary Schools of Psychology.—3 s.h.
ASSOCIATE PROFESSOR ZENER

Psychology 306. Seminar in Child Psychology.—2 or 3 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR ADAMS

Psychology 309. Theory of Learning.—3 s.h. ASSOCIATE PROFESSOR ADAMS
[Not offered in 1944-45]

Sociology 212. Child Welfare.—3 s.h. PROFESSOR JENSEN
[Not offered in 1944-45]

Sociology 213. Constructive Social Policies.—2 s.h. PROFESSOR JENSEN
[Not offered in 1944-45]

Sociology 319. Principles of Sociology.—3 s.h. PROFESSOR JENSEN
[Not offered in 1944-45]

Sociology 320. History of Social Philosophy.—3 s.h. PROFESSOR JENSEN

FOR MAJORS IN PUBLIC SCHOOL ADMINISTRATION

Economics 230. Public Debts in the United States.—3 s.h.
PROFESSOR RATCHFORD

Political Science 209. State and Local Government in the United States.—3 s.h. PROFESSOR RANKIN

Political Science 291. Municipal Government.—3 s.h. PROFESSOR RANKIN

Sociology 213. Constructive Social Policies.—2 s.h. PROFESSOR JENSEN
[Not offered in 1944-45]

FOR MAJORS IN HISTORY AND PHILOSOPHY OF EDUCATION

History 209-210. Constitutional History of the United States, 1763-1860.—6 s.h. ASSISTANT PROFESSOR STILL
[Not offered in 1944-45]

Philosophy 205. The Philosophy of History.—3 s.h. PROFESSOR WIDGERY

Philosophy 208. Political Philosophy.—3 s.h.
ASSOCIATE PROFESSOR MORGAN

Philosophy 223. Contemporary Philosophy.—*Second semester.* 3 s.h.
PROFESSOOR WIDGERY

Religion 291. Christian Ethics I.—3 s.h. PROFESSOR SMITH

Religion 292. Christian Ethics II.—3 s.h. PROFESSOR SMITH

Religion 393. Religious Thought in Colonial America.—3 s.h.
PROFESSOR SMITH

Religion 394. Religious Thought in Modern America.—3 s.h.
PROFESSOR SMITH

Sociology 319. Principles of Sociology.—3 s.h. PROFESSOR JENSEN
[Not offered in 1944-45]

Sociology 320. History of Social Philosophy.—3 s.h. PROFESSOR JENSEN

ENGLISH

PROFESSOR WHITE, CHAIRMAN—205 WEST DUKE BUILDING; PROFESSOR HUBBELL, DIRECTOR OF GRADUATE STUDIES—105 EAST DUKE BUILDING; PROFESSORS BAUM, GILBERT, GOHDES, AND IRVING; ASSOCIATE PROFESSOR WARD; ASSISTANT PROFESSOR TALBERT

201-202. Anglo-Saxon.—6 s.h. PROFESSOR BAUM

203-204. Chaucer.—6 s.h. PROFESSOR BAUM

205-206. Middle English.—6 s.h. PROFESSOR BAUM
[Not offered in 1944-45]

207-208. English Literature, 1400-1550.—6 s.h. PROFESSOR BAUM
[Not offered in 1944-45]

209. English Literature Other than Drama, 1550-1625.—3 s.h.
PROFESSOR GILBERT

210. English Literature Other than Drama, 1625-1700.—3 s.h.
ASSOCIATE PROFESSOR WARD

215-216. Elizabethan Drama.—6 s.h.
PROFESSOR GILBERT AND ASSISTANT PROFESSOR TALBERT

219-220. The Eighteenth Century.—6 s.h. PROFESSOR IRVING

221-222. English Literature of the Early Nineteenth Century.—6 s.h.
PROFESSOR WHITE

223-224. English Literature of the Later Nineteenth Century.—6 s.h.
[In 1944-45 only 224 is offered] PROFESSOR BAUM

227. Literary Criticism.—3 s.h. PROFESSOR GILBERT

220-230. American Literature, 1800-1870.—6 s.h. PROFESSOR HUBBELL

231-232. Special Studies in American Literature.—6 s.h.
PROFESSOR GOHDES

233-234. American Literature since 1870.—6 s.h. PROFESSOR GOHDES

237. English Drama, 1642-1800.—3 s.h. ASSOCIATE PROFESSOR WARD

247-248. American Literature of the Colonial Period.—6 s.h.
[Not offered in 1944-45]

269. Southern Literature.—3 s.h. PROFESSOR HUBBELL
[Not offered in 1944-45]

FOR GRADUATES

349. Seminar Courses.—3 s.h.

(a) Shakespeare. ASSISTANT PROFESSOR TALBERT
(b) Milton, or Spenser. PROFESSOR GILBERT
(c) Dryden. ASSOCIATE PROFESSOR WARD
(d) Pope, or Johnson. PROFESSOR IRVING
(e) Shelley, or Wordsworth, or Byron. PROFESSOR WHITE
(f) Arnold, or Tennyson. PROFESSOR BAUM
(g) Poe, or Hawthorne. PROFESSOR HUBBELL
(h) Emerson, or Whitman. PROFESSOR GOHDES

In 1944-45, 349b and 349f will be offered in the first semester; 349e and 349g in the second semester.

359-360. Research Courses.—3 or 6 s.h.

(a) The Early Language and Literature. PROFESSOR BAUM
(b) Elizabethan Literature. PROFESSOR GILBERT
(c) The Seventeenth Century. PROFESSOR GILBERT AND ASSOCIATE PROFESSOR WARD
(d) The Eighteenth Century. PROFESSOR IRVING
(e) The Early Nineteenth Century. PROFESSOR WHITE
(f) The Later Nineteenth Century. PROFESSOR BAUM
(g) American Literature to 1870. PROFESSOR HUBBELL
(h) American Literature since 1870. PROFESSOR GOHDES

400. Special Studies.—Hours and credits to be arranged.
MEMBERS OF THE GRADUATE STAFF

RELATED COURSES IN OTHER DEPARTMENTS

The attention of students in English is directed to the following courses:

German 301-302. Gothic-Middle High German.—6 s.h. PROFESSOR VOLLMER

Greek 201-202. Greek Tragedy.—6 s.h. PROFESSOR PEPPLER

History 221-222. The Age of the Renaissance.—6 s.h.
ASSOCIATE PROFESSOR NELSON

History 223-234. Medieval Institutions and Culture.—6 s.h.
ASSOCIATE PROFESSOR QUYNN

History 337. Social and Economic Life of the Old South.—4 s.h.
PROFESSOR SYDNOR

Philosophy 201-202. The Philosophy of Art.—6 s.h. PROFESSOR GILBERT

Philosophy 213-214. History of Aesthetics.—6 s.h. PROFESSOR GILBERT

Psychology 202. Psychology of Aesthetics.—3 s.h. PROFESSOR LUNDHOLM
[Not offered in 1944-45]

Romance Languages 219. Old French—3 s.h. PROFESSOR COWPER

FORESTRY

PROFESSOR KORSTIAN, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—FEW QUADRANGLE, HOUSE GG-010; PROFESSORS BEAL, SCHUMACHER, WACKERMAN, AND WOLF; ASSOCIATE PROFESSORS COILE, HARRAR, KRAMER, MAUGHAN, AND THOMSON

FOR SENIORS AND GRADUATES

224. Forest Pathology.—Prerequisites: Botany 1 and 2, and Forestry 253, or equivalents. 4 s.h. PROFESSOR WOLF

231. Forest Entomology.—3 s.h. PROFESSOR BEAL

251. Sampling Methods in Forestry.—Prerequisite: Forestry S151. 2 s.h.
PROFESSOR SCHUMACHER

252. Forest Mensuration.—Prerequisite: Forestry 251. 2 s.h.
PROFESSOR SCHUMACHER

253. Dendrology.—Prerequisite: one year of botany. 3 s.h.
PROFESSOR BEAL

257. Design of Forestry Experiments and Analysis of Data.—5 s.h.
PROFESSOR SCHUMACHER

259. Wood Anatomy and Properties.—Prerequisites: one year of botany and Chemistry 1 and 2, or equivalents. 3 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR HARRAR

261. Forest Soils.—Prerequisites: Chemistry 1 and 2, and Physics 1, or equivalents; physical geology and analytical chemistry are also desirable. 3 s.h. ASSOCIATE PROFESSOR COILE
[Not offered in 1944-45]

264. Silvics.—Desirable prerequisites: plant physiology, plant ecology, and Forestry 253 and 261, or equivalents. 3 s.h. PROFESSOR KORSTIAN

276. Forest Policy.—2 s.h. ASSOCIATE PROFESSOR THOMSON
[Not offered in 1944-45]

279. Economics of Forestry.—Prerequisite: at least one course in the principles of economics. 3 s.h. PROFESSOR WACKERMAN

FOR GRADUATES

323-324. Advanced Forest Pathology.—Prerequisites: plant physiology and forest pathology. Credits to be arranged. PROFESSOR WOLF

351-352. Advanced Physiology of Forest Trees.—Prerequisites: plant physiology and plant ecology or silvics. Credits to be arranged.
ASSOCIATE PROFESSOR KRAMER

354. Forest Soil Fertility.—Prerequisites: Forestry 251 and 261, and plant physiology, or equivalents; bacteriology and analytical and organic chemistry are desirable. 3 s.h. ASSOCIATE PROFESSOR COILE
[Not offered in 1944-45]

356. Economic Forces in Forestry.—Prerequisites: Forestry 279 and 282, or equivalents; courses in economic theory are desirable. 2 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR THOMSON

357-358. Research in Forestry.—Credits to be arranged.

a. **Silvics.**—Prerequisites: Forestry 253, 261, and 264, or equivalents.
PROFESSOR KORSTIAN

b. **Forest Soils.**—Prerequisite: Forestry 261 or equivalent.
[Not offered in 1944-45] ASSOCIATE PROFESSOR COILE

d. **Forest Management.**—Prerequisite: Forestry 281 or equivalent.
ASSOCIATE PROFESSOR MAUGHAN

e. **Forest Economics.**—Prerequisite: Forestry 279 or equivalent.
PROFESSOR WACKERMAN

f. **Wood Anatomy and Properties.**—Prerequisites: Forestry 259 and 260, or equivalents. ASSOCIATE PROFESSOR HARRAR
[Not offered in 1944-45]

g. **Forest Mensuration.**—Prerequisites: Forestry S151, 251, and 252, or equivalents. PROFESSOR SCHUMACHER

h. **Forest Entomology.**—Prerequisite: Forestry 231 or equivalent.
PROFESSOR BEAL

GERMANIC LANGUAGES AND LITERATURE

PROFESSOR VOLLMER, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—205 PAGE AUDITORIUM; PROFESSOR KRUMMEL

201-202. Goethe.—6 s.h. PROFESSOR KRUMMEL

203-204. Leibnitz to Romanticism.—6 s.h. PROFESSOR VOLLMER

205-206. Middle High German.—6 s.h. PROFESSOR VOLLMER

207-208. German Romanticism.—6 s.h. PROFESSOR VOLLMER

209-210. Kleist, Grillparzer, and Hebbel.—6 s.h. PROFESSOR KRUMMEL

211-212. Heinrich Heine.—6 s.h. PROFESSOR VOLLMER

213-214. Literature of the Empire, 1871-1914.—6 s.h. PROFESSOR VOLLMER

FOR GRADUATES

301-302. Gothic—Middle High German.—6 s.h. PROFESSOR VOLLMER

303-304. German Seminar.—Credit to be arranged.
PROFESSORS VOLLMER AND KRUMMEL

RELATED COURSES IN OTHER DEPARTMENTS

History 217-218. Europe since 1870.—6 s.h. PROFESSOR CARROLL
[Not offered in 1944-45]

History 221-222. The Age of the Renaissance.—6 s.h.
ASSOCIATE PROFESSOR NELSON

History 223-224. Medieval Institutions and Culture.—6 s.h.
ASSISTANT PROFESSOR QUYNN

History 225-226. The Age of the Reformation.—6 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR NELSON

Philosophy 201-202. The Philosophy of Art.—6 s.h. PROFESSOR GILBERT

Philosophy 213-214. History of Aesthetics.—6 s.h. PROFESSOR GILBERT
[Not offered in 1944-45]

Philosophy 223. Contemporary Philosophy.—3 s.h. PROFESSOR WIDGERY

Philosophy 244. Nietzsche and the Nineteenth Century.—3 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR MORGAN

Sociology 320. History of Social Philosophy.—3 s.h. PROFESSOR JENSEN

HISTORY

PROFESSOR LAPRADE, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—2B WEST DUKE BUILDING; PROFESSORS CARROLL, CLYDE, LANNING, AND SYDNOR; ASSOCIATE PROFESSORS MANCHESTER AND NELSON; ASSISTANT PROFESSORS QUYNN, STILL, AND WOODY

AMERICAN HISTORY

FOR SENIORS AND GRADUATES

203-204. The United States, 1850-1900.—6 s.h.
ASSISTANT PROFESSOR WOODY

209-210. Constitutional History of the United States, 1763-1860.—Prerequisites: courses 91 and 92. 6 s.h. ASSISTANT PROFESSOR STILL
[Not offered in 1944-45]

215-216. Foreign Policy and Diplomacy of the United States.—6 s.h.
PROFESSOR CLYDE

230. The Portuguese Empire and the Rise of Brazil.—3 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR MANCHESTER

231. The Hispanic Colonies of the New World.—3 s.h.
PROFESSOR LANNING

232. The Hispanic American Republics of the New World.—3 s.h.
PROFESSOR LANNING

233. The Cultural and Institutional History of Colonial Hispanic America.—3 s.h. PROFESSOR LANNING
[Not offered in 1944-45]

234. Political and Social Problems in the Hispanic American Republics.—3 s.h. PROFESSOR LANNING
[Not offered in 1944-45]

263-264. American Colonial History and the Revolution, 1606-1783.—6 s.h.
[Not offered in 1944-45] ASSISTANT PROFESSOR WOODY

265-266. The Westward Movement in the United States.—6 s.h.
[Not offered in 1944-45] ASSISTANT PROFESSOR STILL

FOR GRADUATES

304. The Union, Confederacy, and Reconstruction.—4 s.h.
[Not offered in 1944-45] ASSISTANT PROFESSOR WOODY

315. Seminar in Southern History.—2 s.h. PROFESSOR SYDNOR

321. Seminar in the History of Spain and the Spanish-American Colonies.—2 s.h. PROFESSOR LANNING

336. The South in Federal Politics, 1789-1860.—4 s.h. PROFESSOR SYDNOR
[Not offered in 1944-45]

337. Social and Economic Life of the Old South.—4 s.h.
PROFESSOR SYDNOR

EUROPE AND THE FAR EAST

FOR SENIORS AND GRADUATES

217-218. Europe since 1870.—6 s.h. PROFESSOR CARROLL
[Not offered in 1944-45]

219-220. The History of the European Proletariat.—6 s.h.
[Not offered in 1944-45] PROFESSOR CARROLL

221-222. The Age of the Renaissance.—6 s.h.
ASSOCIATE PROFESSOR NELSON

223-224. Medieval Institutions and Culture.—6 s.h.
ASSISTANT PROFESSOR QUYNN

225-226. The Age of the Reformation.—6 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR NELSON

241-242. The Foreign Relations and Diplomacy of the United States in the Pacific and the Far East.—6 s.h. PROFESSOR CLYDE
[Not offered in 1944-45]

FOR GRADUATES

305. Seminar in the History of England and the British Empire.—2 s.h.
PROFESSOR LAPRADE

317. Seminar in Recent European History.—2 s.h. PROFESSOR CARROLL
[Not offered in 1944-45]

325. British Nationality and Public Opinion.—4 s.h. PROFESSOR LAPRADE

327. Modern Phases of the English Constitution.—4 s.h.
[Not offered in 1944-45] PROFESSOR LAPRADE

343. Seminar in the History of American Foreign Relations and the Far East.—2 s.h. PROFESSOR CLYDE

HISTORIOGRAPHY AND THE TEACHING OF HISTORY

FOR SENIORS AND GRADUATES

211. The Teaching of History and the Social Studies.—3 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR MANCHESTER

FOR GRADUATES

320. Historiography.—4 s.h. ASSOCIATE PROFESSOR NELSON

329. Historiography of the South.—4 s.h. ASSISTANT PROFESSOR WOODY
[Not offered in 1944-45]

RELATED COURSES IN OTHER DEPARTMENTS

Economics 231. Economic History of Modern Europe.—3 s.h.
PROFESSOR HAMILTON

Economics 232. Economic History of the United States.—3 s.h.
PROFESSOR HAMILTON

Economics 311-312. History of Political Economy.—6 s.h.
PROFESSOR HAMILTON

Economics 315. Economic Systems.—3 s.h. PROFESSOR HOOVER

Economics 316. Economic Functions of the State.—3 s.h.
PROFESSOR HOOVER

Political Science 223. Political Thought to the Seventeenth Century.—3 s.h. PROFESSOR WILSON

Political Science 224. Modern Political Theory.—3 s.h.
PROFESSOR WILSON

Religion 309. History of the Ancient Near East.—3 s.h.
ASSOCIATE PROFESSOR STINESPRING

Religion 393. Religious Thought in Colonial America.—3 s.h.
PROFESSOR SMITH

Religion 394. Religious Thought in Modern America.—3 s.h.
PROFESSOR SMITH

Sociology 237. Indians of North America.—3 s.h.
ASSOCIATE PROFESSOR GILLIN

Sociology 238. Anthropological Backgrounds of Latin America.—3 s.h.
ASSOCIATE PROFESSOR GILLIN

Sociology 239. Acculturation and Cultural Synthesis.—3 s.h.
ASSOCIATE PROFESSOR GILLIN

Sociology 240. The Peoples of Africa.—3 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR GILLIN

Sociology 320. History of Social Philosophy.—3 s.h. PROFESSOR JENSEN

MATHEMATICS

PROFESSOR GERGEN, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—03 GRAY BUILDING; PROFESSORS ELLIOTT, RANKIN, AND THOMAS; ASSOCIATE PROFESSORS CARLITZ AND ROBERTS; ASSISTANT PROFESSOR DRESSEL

FOR SENIORS AND GRADUATES

201. History of Mathematics.—Prerequisite: differential calculus. 3 s.h.
PROFESSOR RANKIN

204. Teaching of Mathematics.—3 s.h. PROFESSOR RANKIN

225. Theory of Equations.—Prerequisite: integral calculus. 3 s.h.
PROFESSOR THOMAS

227-228. **Theory of Numbers.**—Prerequisite: integral calculus. 6 s.h.
ASSOCIATE PROFESSOR CARLITZ

229-230. **Algebraic Numbers.**—Prerequisite: Mathematics 225. 6 s.h.
ASSOCIATE PROFESSOR CARLITZ

235-236. **Modern Algebra.**—Prerequisite: integral calculus. 6 s.h.
ASSOCIATE PROFESSOR CARLITZ

250. **Modern Geometry.**—3 s.h. PROFESSOR THOMAS

255-256. **Projective Geometry.**—Prerequisite: integral calculus. 6 s.h.
PROFESSOR THOMAS

271-272. **Introductory Topology.**—Prerequisite: integral calculus. 6 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR ROBERTS

275. **Probability.**—Prerequisite: integral calculus. 3 s.h.
ASSISTANT PROFESSOR DRESSEL

281. **Elementary Potential Theory.**—Prerequisite: integral calculus. 3 s.h.
PROFESSOR GERGEN

282. **Differential Equations of Mathematical Physics.**—Prerequisite: integral calculus. 3 s.h. ASSISTANT PROFESSOR DRESSEL

283. **Fourier Series and Spherical Harmonics.**—Prerequisite: integral calculus. 3 s.h. ASSISTANT PROFESSOR DRESSEL

284. **Vector Analysis.**—Prerequisite: integral calculus. 3 s.h.
PROFESSOR THOMAS

287. **Mathematical Logic.**—3 s.h. ASSOCIATE PROFESSOR CARLITZ

288. **Foundations of Mathematics.**—3 s.h. ASSOCIATE PROFESSOR CARLITZ

291-292. **Theory of Functions.**—Prerequisite: second course in calculus. 6 s.h. PROFESSOR GERGEN

FOR GRADUATES

301-302. **Algebraic Geometry.**—Prerequisite: Mathematics 255-256. 6 s.h.
PROFESSOR THOMAS

325-326. **Real Variable.**—Prerequisite: Mathematics 291-292. 6 s.h.
PROFESSOR GERGEN

331-332. **Complex Variable.**—Prerequisite: Mathematics 291-292. 6 s.h.

333-334. **Analytic Theory of Numbers.**—Prerequisite: Mathematics 291-292. 6 s.h. ASSOCIATE PROFESSOR CARLITZ

337-338. **Existence Theorems.**—Prerequisite: Mathematics 291-292. 6 s.h.
PROFESSOR THOMAS

341-342. **Integral Equations.**—Prerequisites: elementary differential equations and second course in calculus. 6 s.h. PROFESSOR ELLIOTT

343-344. **Ordinary Differential Equations.**—Prerequisite: Mathematics 291-292. 6 s.h. PROFESSOR THOMAS

353-354. **Trigonometric Series.**—Prerequisite: Mathematics 325-326. 6 s.h.
PROFESSOR GERGEN

371-372. **Dimension Theory.**—Prerequisite: Mathematics 271-272. 6 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR ROBERTS

373-374. Continuous Transformations.—Prerequisite: Mathematics 271-272. 6 s.h. ASSOCIATE PROFESSOR ROBERTS
[Not offered in 1944-45]

382. Potential Theory.—Prerequisites: Mathematics 281 and 325-326. 3 s.h. PROFESSOR GERGEN

PHILOSOPHY

PROFESSOR WIDGERY, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—303 DIVINITY SCHOOL; PROFESSORS GILBERT AND SMITH; ASSOCIATE PROFESSORS LEONARD AND MORGAN; ASSISTANT PROFESSOR MCLARTY

Courses normally given in alternate years marked with a dagger are offered in 1944-45. Those marked with an asterisk are not offered in 1944-45.

FOR SENIORS AND GRADUATES

†201-202. The Philosophy of Art.—6 s.h. PROFESSOR GILBERT

203. The Philosophy of Conduct.—3 s.h. ASSOCIATE PROFESSOR MORGAN

†205. The Philosophy of History.—3 s.h. PROFESSOR WIDGERY

†208. The Political Philosophy.—3 s.h. ASSOCIATE PROFESSOR MORGAN

*209-210. The Philosophy of Religion.—6 s.h. PROFESSOR WIDGERY

211. Philosophy of Civilization.—3 s.h. ASSOCIATE PROFESSOR MORGAN

*213-214. History of Aesthetics.—6 s.h. PROFESSOR GILBERT

215. Christian Ethics I.—3 s.h. PROFESSOR SMITH

216. Christian Ethics II.—3 s.h. PROFESSOR SMITH

217. The Philosophy of Aristotle.—Prerequisite: 105. 3 s.h. ASSISTANT PROFESSOR MCLARTY

†223. Contemporary Philosophy.—3 s.h. PROFESSOR WIDGERY

*226. The History of Ethics.—3 s.h. ASSOCIATE PROFESSOR MORGAN

231-232. Philosophy of Science.—6 s.h. ASSOCIATE PROFESSOR LEONARD

*236. Oriental Philosophy I. Chinese Philosophy.—3 s.h.

*238. Oriental Philosophy II. Indian Philosophy.—3 s.h. PROFESSOR WIDGERY

*241. Logic.—3 s.h. ASSOCIATE PROFESSOR LEONARD

*242. Scientific Methodology.—3 s.h. ASSOCIATE PROFESSOR LEONARD

*244. Nietzsche and the Nineteenth Century.—3 s.h. ASSOCIATE PROFESSOR MORGAN

*248. Philosophy of Values.—2 s.h.

FOR GRADUATES

301-302. Seminar in Philosophy.—4 s.h. PROFESSOR WIDGERY

*305. Seminar: Spinoza.—3 s.h. PROFESSOR GILBERT

*307. Seminar: Kant.—2 s.h. ASSOCIATE PROFESSOR MORGAN

*308. Seminar: Hegel.—3 s.h. PROFESSOR GILBERT

*310. Seminar: Logical Positivism and Its Relation to Contemporary Movements in Philosophy and Science.—2 s.h. ASSOCIATE PROFESSOR LEONARD

*315. Seminar in Leibnitz.—2 s.h.

319. Religious Thought in Colonial America.—3 s.h. PROFESSOR SMITH

320. Religious Thought in Modern America.—3 s.h. PROFESSOR SMITH

323. Seminar in American Religious Thought.—2 s.h. PROFESSOR SMITH

*325. Seminar: Locke, Berkeley, Hume.—2 s.h.
ASSOCIATE PROFESSOR LEONARD

326. Seminar: Christian Ethics.—2 s.h. PROFESSOR SMITH

331-332. Seminar in Special Fields of Philosophy.—2 s.h. each semester.

(a) Logic and Philosophy of Science. ASSOCIATE PROFESSOR LEONARD

(b) Ethics and Political Philosophy. ASSOCIATE PROFESSOR MORGAN

(c) Aesthetics. PROFESSOR GILBERT

(d) Philosophy of Religion and of History. PROFESSOR WIDGERY

RELATED COURSES IN OTHER DEPARTMENTS

Education 200. Introduction to the Philosophy of Education.—3 s.h.
[Not offered in 1944-45] PROFESSOR HOLTON

Greek 209-210. Plato.—6 s.h. ASSISTANT PROFESSOR WAY

History 221-222. The Age of the Renaissance.—6 s.h.
ASSOCIATE PROFESSOR NELSON

Mathematics 387. Mathematical Logic.—3 s.h.
ASSOCIATE PROFESSOR CARLITZ

Mathematics 288. Foundations of Mathematics.—3 s.h.
ASSOCIATE PROFESSOR CARLITZ

Physics 213-214. Contemporary Physics.—6 s.h.
ASSOCIATE PROFESSOR CONSTANT

Political Science 223. Political Thought to the Seventeenth Century.—3 s.h. PROFESSOR WILSON

Political Science 224. Modern Political Theory.—3 s.h. PROFESSOR WILSON

Psychology 228. Psychology of Belief.—3 s.h. PROFESSOR LUNDHOLM
[Not offered in 1944-45]

Religion 221. Platonism and Christianity.—3 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR OUTLER

Religion 222. Theology and Philosophy in the Nineteenth Century.—3 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR OUTLER

Sociology 320. History of Social Philosophy.—3 s.h. PROFESSOR JENSEN

Zoology 341. Historical and Philosophical Zoology.—2 s.h.
PROFESSOR HARGITT

PHYSICS

PROFESSOR NIELSEN, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—111 PHYSICS BUILDING; PROFESSORS EDWARDS, HATLEY, NORDHEIM, AND SPONER; ASSOCIATE PROFESSOR CONSTANT; ASSISTANT PROFESSOR BONNER; DR. HEBB

FOR SENIORS AND GRADUATES

213-214. **Contemporary Physics.**—6 s.h. ASSOCIATE PROFESSOR CONSTANT

215-216. **Atomic Physics Laboratory**—2-4 s.h.
[Not offered in 1944-45] PROFESSORS NIELSEN AND SPONER

217-218. **Advanced General Physics Laboratory.**—2 s.h.
[Not offered in 1944-45] PROFESSORS NIELSEN AND SPONER

219. **Electron Tubes and Their Application.**—4 s.h. PROFESSOR NIELSEN

221-222. **Introduction to Theoretical Physics.**—8 s.h.
ASSOCIATE PROFESSOR CONSTANT

FOR GRADUATES

303. **Thermodynamics.**—3 s.h. PROFESSORS GROSS AND SPONER

305. **Kinetic Theory of Matter.**—3 s.h. PROFESSOR SPONER

307. **Advanced Dynamics.**—3 s.h. PROFESSOR NORDHEIM
[Not offered in 1944-45]

308. **Theory of Electricity and Magnetism.**—3 s.h. PROFESSOR NORDHEIM
[Not offered in 1944-45]

311. **Conduction of Electricity through Gases.**—3 s.h. PROFESSOR EDWARDS
[Not offered in 1944-45]

315-316. **Principles of Quantum Theory.**—6 s.h. PROFESSOR NORDHEIM
[Not offered in 1944-45]

319. **Electrodynamics.**—3 s.h. PROFESSOR NORDHEIM
[Not offered in 1944-45]

320. **Theory of Electrons.**—3 s.h. PROFESSOR NORDHEIM
[Not offered in 1944-45]

323. **Theory of Atomic Spectra.**—3 s.h. PROFESSOR SPONER
[Not offered in 1944-45]

324. **Theory of Molecular Spectra.**—3 s.h. PROFESSOR SPONER
[Not offered in 1944-45]

340. **Structure of Matter.**—3 s.h. PROFESSOR SPONER
[Not offered in 1944-45]

341. **Advanced Topics in Quantum Theory.**—Prerequisite: Physics 315-316. 3 s.h. PROFESSOR NORDHEIM
[Not offered in 1944-45]

343-344. **Radioactivity and Nuclear Structure.**—6 s.h. PROFESSOR NIELSEN
[Not offered in 1944-45]

351-352. **Seminar.**—2 s.h. STAFF

353-354. **Thesis Seminar.**—6 s.h. STAFF

POLITICAL SCIENCE

PROFESSOR WILSON, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—311 LIBRARY; PROFESSORS RANKIN AND VON BECKERATH; ASSOCIATE PROFESSORS COLE AND SHIPMAN; ASSISTANT PROFESSORS GIBSON, HALLOWELL, LINEBARGER, AND WALTER

FOR SENIORS AND GRADUATES

207. American Constitutional Law and Theory.—3 s.h.
PROFESSOR WILSON

209. State and Local Government in the United States.—3 s.h.
PROFESSOR RANKIN

211. Political Institutions of the Far East.—3 s.h.
[Not offered in 1944-45] ASSISTANT PROFESSOR LINEBARGER

212. International Politics of the Far East.—3 s.h.
[Not offered in 1944-45] ASSISTANT PROFESSOR LINEBARGER

223. Political Thought to the Seventeenth Century.—3 s.h.
PROFESSOR WILSON

224. Modern Political Theory.—3 s.h. PROFESSOR WILSON

225-226. Comparative Government.—6 s.h.
ASSISTANT PROFESSOR HALLOWLEL

227-228. International Law.—6 s.h. PROFESSOR WILSON

229. Recent and Contemporary Political Theory.—3 s.h.
ASSISTANT PROFESSOR HALLOWELL

230. American Political Institutions.—3 s.h. PROFESSOR RANKIN

241-242. The Administrative Process.—6 s.h.
ASSISTANT PROFESSOR WALTER

244. Administrative Law.—3 s.h. ASSISTANT PROFESSOR WALTER
[Not offered in 1944-45]

252. Spanish-American Constitutionalism.—3 s.h.
[Not offered in 1944-45] ASSISTANT PROFESSOR GIBSON

271. Sociopolitics and Capitalism.—3 s.h. PROFESSOR VON BECKERATH

291. Municipal Government.—3 s.h. PROFESSOR RANKIN

292. Municipal Administration.—3 s.h. PROFESSOR RANKIN

FOR GRADUATES

310. Seminar in State Government.—3 s.h. PROFESSOR RANKIN

311. Seminar in Far Eastern Politics.—3 s.h.
[Not offered in 1944-45] ASSISTANT PROFESSOR LINEBARGER

325. Seminar in Comparative Government.—3 s.h.
ASSISTANT PROFESSOR HALLOWELL

328. Seminar in International Law.—3 s.h. PROFESSOR WILSON
[Not offered in 1944-45]

341. Seminar in Public Adminstration.—3 s.h.
[Not offered in 1944-45] ASSISTANT PROFESSOR WALTER

RELATED COURSES IN OTHER DEPARTMENTS

Economics 233. State and Local Finance.—3 s.h. PROFESSOR RATCHFORD

Economics 234. Federal Finance.—3 s.h. PROFESSOR RATCHFORD

Economics 237-238. Statistical Methods.—6 s.h.
ASSISTANT PROFESSOR SPRINGER

Economics 265. International Trade and Tariff Policies.—3 s.h.
PROFESSOR VON BECKERATH

Economics 266. International Finance.—3 s.h.
[Not offered in 1944-45] ASSISTANT PROFESSOR LESTER

Economics 270. Economics of War.—3 s.h.
PROFESSORS HAMILTON AND VON BECKERATH

Economics 316. Economic Functions of the State.—3 s.h.
PROFESSOR HOOVER

History 215-216. Foreign Policy and Diplomacy of the United States.—6 s.h.. PROFESSOR CLYDE

History 217-218. Europe since 1870.—6 s.h. PROFESSOR CARROLL
[Not offered in 1944-45]

History 234. Political and Social Problems in the Hispanic American Republics.—3 s.h. PROFESSOR LANNING
[Not offered in 1944-45]

Philosophy 208. Political Philosophy.—3 s.h. ASSOCIATE PROFESSOR MORGAN

PSYCHOLOGY

PROFESSOR LUNDHOLM, CHAIRMAN—201 SCIENCE BUILDING; ASSOCIATE PROFESSOR ZENER, DIRECTOR OF GRADUATE STUDIES—217A SCIENCE BUILDING; PROFESSOR RHINE; ASSOCIATE PROFESSOR ADAMS AND VISITING ASSOCIATE PROFESSOR CATTELL; ASSISTANT PROFESSOR KEMP; DR. KOCH

FOR SENIORS AND GRADUATES

202. Psychology of Aesthetics.—3 s.h. PROFESSOR LUNDHOLM
[Not offered in 1944-45]

204. Motivation and Learning.—3 s.h. ASSOCIATE PROFESSOR ZENER
[Not offered in 1944-45]

206. Social Psychology.—3 s.h.
[First semester only] ASSOCIATE PROFESSOR ADAMS AND DR. KOCH

207. Psychology of Memory, Thinking, Perceiving.—3 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR ZENER

209. Experimental Methods in Human Psychology.—4 s.h.
ASSOCIATE PROFESSOR ZENER

212. Physiological Psychology.—3 s.h. ASSISTANT PROFESSOR KEMP
[Not offered in 1944-45]

215. Developmental Psychology.—3 s.h. ASSOCIATE PROFESSOR ADAMS
[Not offered in 1944-45]

223. Abnormal Psychology.—3 s.h. PROFESSOR LUNDHOLM

226. Contemporary Schools of Psychology.—3 s.h.
ASSOCIATE PROFESSOR ZENER

228. Psychology of Belief.—3 s.h. PROFESSOR LUNDHOLM
[Not offered in 1944-45]

FOR GRADUATES

302. Seminar.—3 s.h. PROFESSOR LUNDHOLM
[Not offered in 1944-45]

303-304. Research.—2 or 3 s.h.
PROFESSORS LUNDHOLM AND RHINE; ASSOCIATE PROFESSORS ADAMS AND ZENER; AND VISITING ASSOCIATE PROFESSOR CATTELL

306. Seminar in Child Psychology.—2 or 3 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR ADAMS

307. Seminar in Psychology of Personality.—3 s.h. PROFESSOR RHINE
[Not offered in 1944-45]

309. Theory of Learning.—3 s.h. ASSOCIATE PROFESSOR ADAMS
[Not offered in 1944-45]

310. Seminar: Selected Problems in the Dynamics of Behavior.—3 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR ZENER

313. Seminar in Parapsychology.—3 s.h. PROFESSOR RHINE
[Not offered in 1944-45]

RELATED COURSES IN OTHER DEPARTMENTS

Education 208A. Mental Tests and Applications.—3 s.h.
ASSISTANT PROFESSOR VAN ALSTYNE

Education 208B. Practicum.—2 s.h. ASSISTANT PROFESSOR VAN ALSTYNE

Education 209. Statistical Methods Applied to Education.—2 s.h.
ASSOCIATE PROFESSOR SCATES

Education 217. Advanced Educational Psychology.—3 s.h.
PROFESSOR BROWNELL

Education 218. Educational Implications of Genetic Psychology.—3 s.h.
PROFESSOR BROWNELL

Education 227. The Psychology of Learning: Problems.—3 s.h.
[Not offered in 1944-45] ASSISTANT PROFESSOR EASLEY

Education 228. The Psychology of Learning: Theoretical and Experimental.—3 s.h. ASSISTANT PROFESSOR EASLEY
[Not offered in 1944-45]

Education 258. Educational Measurements.—3 s.h.
ASSOCIATE PROFESSOR SCATES

Education 320. Advanced Educational Statistics.—3 s.h.
ASSOCIATE PROFESSOR SCATES

Philosophy 223. Contemporary Philosophy.—3 s.h. PROFESSOR WIDGERY

Philosophy 231-232. Philosophy of Science.—6 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR LEONARD

Philosophy 241. Logic.—3 s.h. ASSOCIATE PROFESSOR LEONARD
[Not offered in 1944-45]

Philosophy 242. Scientific Methodology.—3 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR LEONARD

Sociology 212. Child Welfare.—3 s.h. PROFESSOR JENSEN

Sociology 217. Race and Culture.—3 s.h.
ASSOCIATE PROFESSOR THOMPSON

Zoology 229. Endocrinology.—4 s.h. ASSISTANT PROFESSOR JEFFERS

Zoology 321. General Physiology.—4 s.h.

Zoology 324. Advanced Physiology.—4 s.h.
[Not offered in 1944-45]

Zoology 341. Historical and Philosophical Zoology.—2 s.h.
PROFESSOR HARGITT

Zoology 351-352. Zoological Journal Club.—2 s.h. STAFF

Zoology 355-356(e). Seminar: Ecology, Parasitology, and Behavior.—Credit to be arranged. PROFESSOR PEARSE AND DR. WHARTON

RELIGION

PROFESSOR SMITH, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—HH-01, FEW QUADRANGLE; PROFESSORS BRANSCOMB, GARBER, AND RUSSELL; ASSOCIATE PROFESSORS CLARK, OUTLER, PETRY, AND STINESPRING; DR. JUDAH GOLDIN

FIELD I. BIBLICAL STUDIES

201-202. First Hebrew.—6 s.h. ASSOCIATE PROFESSOR STINESPRING

205-206. Arabic.—6 s.h. ASSOCIATE PROFESSOR STINESPRING

207-208. Second Hebrew.—6 s.h. DR. GOLDIN

301. Old Testament Theology.—Prerequisite: Old Testament 203-204. 3 s.h. PROFESSOR RUSSELL

304. Aramaic.—3 s.h. ASSOCIATE PROFESSOR STINESPRING

305. Third Hebrew.—3 s.h. ASSOCIATE PROFESSOR STINESPRING
[Not offered in 1944-45]

309. History of the Ancient Near East.—3 s.h.
ASSOCIATE PROFESSOR STINESPRING

310. Old Testament Prophecy.—3 s.h. ASSOCIATE PROFESSOR STINESPRING

218. Galatians and I Corinthians.—3 s.h. PROFESSOR BRANSCOMB
[Not offered in 1944-45]

220. I Peter and the Gospel of John.—3 s.h. PROFESSOR BRANSCOMB

311. The Life and Teachings of Jesus.—Prerequisite: New Testament 213-214. 3 s.h. PROFESSOR BRANSCOMB

312. **New Testament Theology.**—Prerequisite: New Testament 213-214. 3 s.h. PROFESSOR RUSSELL

313. **The Apostolic Fathers.**—3 s.h. ASSOCIATE PROFESSOR CLARK

314. **Early Christian Apologists.**—3 s.h. PROFESSOR BRANSCOMB

315. **Judaism at the Begining of the Christian Era.**—3 s.h. DR. GOLDIN

316. **Hellenistic Religions at the Beginning of the Christian Era.**—3 s.h. ASSOCIATE PROFESSOR CLARK

318. **Text of New Testament.**—3 s.h. ASSOCIATE PROFESSOR CLARK

320. **Rabbinic Literature.**—3 s.h. DR. GOLDIN

FIELD II. STUDIES IN CHURCH HISTORY

328. **The Church in Europe since 1800.**—Prerequisite: Church History 233-234. 3 s.h. PROFESSOR GARBER

331. **The Social Message of the Early and Medieval Church.**—Prerequisite: Church History 233-234. 3 s.h. ASSOCIATE PROFESSOR PETRY

332. **The Medieval Church.**—Prerequisite: Church History 233-234. 3 s.h. ASSOCIATE PROFESSOR PETRY

333. **A History of Christian Renunciation in the Middle Ages.**—Prerequisite: Church History 233-234. 3 s.h. ASSOCIATE PROFESSOR PETRY

334. **Church Reformers and Christian Unity.**—Prerequisite: Church History 233-234. 3 s.h. ASSOCIATE PROFESSOR PETRY

335-336. **The Church in America.**—Prerequisite: Church History 233-234. 6 s.h. PROFESSOR GARBER

337. **Religion in the Southern States since the Civil War.**—Prerequisite: Church History 233-234. 3 s.h. PROFESSOR GARBER
[Not offered in 1944-45]

339. **Seminar on Frontier Religion.**—Prerequisite: Church History 233-234. 2 s.h. PROFESSOR GARBER

FIELD III. STUDIES IN CHRISTIAN THEOLOGY AND ETHICS

221. **Platonism and Christianity.**—Prerequisite: six semester hours in philosophy or its equivalent. 3 s.h. ASSOCIATE PROFESSOR OUTLER
[Not offered in 1944-45]

222. **Theology and Philosophy in the Nineteenth Century.**—3 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR OUTLER

291. **Christian Ethics I.**—3 s.h. PROFESSOR SMITH

292. **Christian Ethics II.**—3 s.h. PROFESSOR SMITH

321. **History of Christian Thought I.**—3 s.h. ASSOCIATE PROFESSOR OUTLER

322. **History of Christian Thought II.**—3 s.h. ASSOCIATE PROFESSOR OUTLER

323. **The Christian Conception of the Church.**—Prerequisite: Christian Doctrine 321. 3 s.h. ASSOCIATE PROFESSOR OUTLER
[Not offered in 1944-45]

329. Seminar in Historical Theology.—2 s.h.
ASSOCIATE PROFESSOR OUTLER

366. Seminar in Philosophy of Religious Education.—2 s.h.
[Not offered in 1944-45] PROFESSOR SMITH

393. Religious Thought in Colonial America.—3 s.h. PROFESSOR SMITH

394. Religious Thought in Modern America.—3 s.h. PROFESSOR SMITH

397. Seminar in American Religious Thought.—2 s.h. PROFESSOR SMITH

398. Seminar in Christian Ethics.—2 s.h. PROFESSOR SMITH

399. Seminar in Theology and Ethics.—2 s.h.
PROFESSOR SMITH AND ASSOCIATE PROFESSOR OUTLER
[Not offered in 1944-45]

ROMANCE LANGUAGES

PROFESSOR WEBB, CHAIRMAN—107 GRAY BUILDING; PROFESSOR JORDAN, DIRECTOR OF GRADUATE STUDIES—106 GRAY BUILDING; PROFESSOR COWPER; ASSOCIATE PROFESSORS LUNDEBERG AND WALTON; ASSISTANT PROFESSORS DAVIS AND REID

FRENCH

FOR SENIORS AND GRADUATES

213. French Classicism.—3 s.h. ASSOCIATE PROFESSOR WALTON

214. French Classicism.—3 s.h. ASSOCIATE PROFESSOR WALTON

215-216. The Modern French Novel.—6 s.h. PROFESSOR JORDAN

217. French Phonetics.—3 s.h. PROFESSOR WEBB

218. Materials and Methods.—3 s.h. PROFESSOR WEBB

219. Old French.—3 s.h. PROFESSOR COWPER

220. Old French.—3 s.h. PROFESSOR COWPER

227. French Poetry since Théophile Gautier.—3 s.h.
ASSOCIATE PROFESSOR WALTON

232. Rousseau and the Beginnings of Romanticism.—3 s.h.
PROFESSOR COWPER

233. Main Currents of Modern French Literature.—3 s.h.
PROFESSOR WEBB

FOR GRADUATES

317. History of the French Language.—3 s.h. PROFESSOR COWPER

323-324. Realism and Naturalism.—3 s.h. PROFESSOR JORDAN

325-326. French Literature in the Sixteenth Century.—6 s.h.
ASSOCIATE PROFESSOR WALTON

328. Anatole France.—3 s.h. ASSOCIATE PROFESSOR WALTON

331. Diderot and the Encyclopédie.—3 s.h. PROFESSOR COWPER

333-334. Contemporary French Literature.—6 s.h. PROFESSOR JORDAN

350. Nineteenth-Century French Criticism.—3 s.h. PROFESSOR JORDAN

Of the courses listed above, the following will be offered during the first semester of the year 1944-45: 218, and four courses from the group 213, 215, 219, 233, 323, 325, 333. During the second semester, 217, and four courses from the group 214, 216, 220, 227, 232, 324, 326, 334, 350.

SPANISH

FOR SENIORS AND GRADUATES

253. Spanish Phonetics.—3 s.h. ASSOCIATE PROFESSOR LUNDEBERG

255-256. Studies in Spanish-American Literature.—6 s.h.
ASSISTANT PROFESSOR REID

258. Landmarks of Medieval and Renaissance Literature.—3 s.h.
ASSISTANT PROFESSOR DAVIS

260. Advanced Syntax and Composition.—3 s.h.
ASSOCIATE PROFESSOR LUNDEBERG

261-262. The Modern Spanish Novel.—6 s.h.
ASSOCIATE PROFESSOR LUNDEBERG

265. Golden Age Literature: Cervantes.—3 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR LUNDEBERG

266. Golden Age Literature: The Don Juan Theme.—3 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR LUNDEBERG

SOCIOLOGY AND ANTHROPOLOGY

PROFESSOR ELLWOOD, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—303 GRAY BUILDING; PROFESSORS GROVES, HART, AND JENSEN; ASSOCIATE PROFESSORS GILLIN AND THOMPSON

205. Social Pathology.—Prerequisite: course 91-92, 101, or 131-132. 3 s.h.
PROFESSOR JENSEN

206. Criminology.—Prerequisite: course 91-92, 101, or 131-132. 3 s.h.
PROFESSOR JENSEN

212. Child Welfare.—Prerequisites: course 91-92, 101, or 131-132. 3. s.h.
[Not offered in 1944-45] PROFESSOR JENSEN

213. Constructive Social Policies.—2 s.h. PROFESSOR JENSEN
[Not offered in 1944-45]

215. Rural Sociology.—Prerequisite: course 91-92, 101, or 131-132. 3 s.h.
ASSOCIATE PROFESSOR THOMPSON

216. Urban Sociology.—Prerequisite: course 91-92, 101, or 131-132. 3 s.h.
ASSOCIATE PROFESSOR THOMPSON

217. Race and Culture.—Prerequisite: course 91-92, 101, or 131-132. 3 s.h.
ASSOCIATE PROFESSOR THOMPSON

225. Statistical Methods in Sociology.—Prerequisite: course 91-92, 101, or 131-132. 3 s.h. PROFESSOR HART

227. Emigration and Immigration.—Prerequisite: course 91-92, 101, or 131-132. 3 s.h. PROFESSOR JENSEN
[Not offered in 1944-45]

236. Social Ethics.—3 s.h. PROFESSOR HART

237. Indians of North America.—Prerequisite: course 131. 3 s.h.
ASSOCIATE PROFESSOR GILLIN

238. Anthropological Backgrounds of Latin America.—Prerequisite: course 131. 3 s.h. ASSOCIATE PROFESSOR GILLIN

239. Acculturation and Cultural Synthesis.—Prerequisite: course 131. 3 s.h. ASSOCIATE PROFESSOR GILLIN

240. The Peoples of Africa.—Prerequisite: course 131. 3 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR GILLIN

252. Education and Social Control.—Prerequisite: course 91-92, 101, or 131-132. 2 s.h.
[Not offered in 1944-45]

281. Public Opinions.—3 s.h. PROFESSOR JENSEN
[Not offered in 1944-45]

FOR GRADUATES

317. Seminar in Anthropology.—1 to 3 s.h. ASSOCIATE PROFESSOR GILLIN

319. Principles of Sociology.—3 s.h. PROFESSOR JENSEN
[Not offered in 1944-45]

320. History of Social Philosophy.—3 s.h. PROFESSOR JENSEN

322. Methods of Social Research.—3 s.h. PROFESSOR JENSEN

326. Operational Sociology.—Prerequisite: one of the following: Sociology 225, or Economics 237-238, or Education 209, or Mathematics 74 or 275, or some other acceptable course in statistics. 3 s.h. PROFESSOR HART

330. Seminar.—1 s.h.
PROFESSORS ELLWOOD, HART, AND JENSEN; ASSOCIATE PROFESSORS GILLIN AND THOMPSON

340. Seminar.—3 s.h. ASSOCIATE PROFESSOR THOMPSON

342. Seminar in Marriage and the Family.—2-4 s.h. PROFESSOR GROVES
[Not offered in 1944-45]

350. Seminar in Applied Sociology.—1 to 3 s.h. PROFESSOR JENSEN

351. Seminar in Medical Sociology.—2 s.h.
[Not offered in 1944-45]

352. Seminar in Family Law.—2 s.h. PROFESSOR BRADWAY

RELATED COURSES IN OTHER DEPARTMENTS

Economics 217. Population Problems and Resources.—3 s.h.
PROFESSOR SPENGLER

Economics 315. Economic Systems.—3 s.h. PROFESSOR HOOVER

Economics 316. Economic Functions of the State.—3 s.h.
PROFESSOR HOOVER

Philosophy 205. Philosophy of History.—3 s.h. PROFESSOR WIDGERY

Political Science 223. Political Thought to the Seventeenth Century.—3 s.h. PROFESSOR WILSON

Political Science 224. Modern Political Theory.—3 s.h.
PROFESSOR WILSON

Psychology 206. Social Psychology.—3 s.h. ASSOCIATE PROFESSOR ADAMS
[First semester only]

ZOOLOGY

PROFESSOR GRAY, CHAIRMAN—218 BIOLOGY BUILDING; PROFESSOR HARGITT, DIRECTOR OF GRADUATE STUDIES—326 BIOLOGY BUILDING; PROFESSORS HALL AND PEARSE; ASSISTANT PROFESSORS BOOKHOUT, JEFFERS, AND JOHNSON

FOR SENIORS AND GRADUATES

204. Advanced Parasitology.—Prerequisite: Zoology 161. 4 s.h.
PROFESSOR PEARSE

222. Entomology.—Prerequisite: one year of zoology. 4 s.h.
PROFESSOR GRAY

224. Vertebrate Zoology.—Prerequisite: Zoology 53. 4 s.h.
PROFESSOR GRAY

229. Endocrinology.—Prerequisites: Zoology 53, 92. 4 s.h.
ASSISTANT PROFESSOR JEFFERS

274. Invertebrate Zoology.—Prerequisites: Zoology 1 and 2. 4 s.h.
ASSISTANT PROFESSOR BOOKHOUT

276. Protozoology.—Prerequisites: Zoology 1 and 2. 4 s.h.
ASSISTANT PROFESSOR BOOKHOUT

FOR GRADUATES

303. Ecology.—4 s.h. PROFESSOR PEARSE

306. Advanced Ecology.—Prerequisite: Zoology 303. 4 s.h.
PROFESSOR PEARSE

307. Foundations of Zoology.—2 s.h. PROFESSOR PEARSE

321. General Physiology.—4 s.h.

324. Advanced Physiology.—Prerequisite: Zoology 151 or 321. 4 s.h.

327. Experimental Embryology.—Prerequisites: Zoology 92, 151 or 321. 3 s.h.

341. Historical and Philosophical Zoology.—2 s.h. PROFESSOR HARGITT

343. Cytology.—Prerequisites: Zoology 53, 92, 156, or equivalents. 4 s.h.
PROFESSOR HARGITT

351-352. Zoological Journal Club.—2 s.h. STAFF

353-354. Research.

(a) Embryology; Endocrinology.
ASSISTANT PROFESSORS JEFFERS AND JOHNSON

(b) Comparative and General Physiology.

(c) Histology; Cytology. PROFESSOR HARGITT AND ASSISTANT PROFESSOR JOHNSON

(d) Invertebrate Zoology. ASSISTANT PROFESSOR BOOKHOUT

(e) Ecology; Parasitology; Behavior. PROFESSOR PEARSE

(f) Vertebrate Zoology; Entomology. PROFESSOR GRAY
Hours and credits to be arranged.

355-356. Seminar.—Hours and credits to be arranged.

(a) Embryology; Endocrinology.

(b) Comparative and General Physiology.

(c) Histology; Cytology. PROFESSOR HARGITT, ASSISTANT PROFESSORS JEFFERS AND JOHNSON

(d) Invertebrate Zoology. ASSISTANT PROFESSOR BOOKHOUT

(e) Ecology; Parasitology; Behavior.
PROFESSOR PEARSE AND DR. WHARTON

(f) Vertebrate Zoology; Entomology. PROFESSOR GRAY

COURSES IN THE MEDICAL SCHOOL OPEN TO GRADUATE STUDENTS

PROFESSORS EADIE, MARKEE, PERLZWEIG, AND D. T. SMITH; VISITING PROFESSOR DAWSON; ASSOCIATE PROFESSORS F. BERNHEIM, DANN, HETHERINGTON, MCCREA, MARTIN, AND TAYLOR; ASSISTANT PROFESSORS M. L. C. BERNHEIM, CONANT, EVERETT, HANDLER, HOLLINSHEAD, NEURATH, AND PEELE

ANATOMY

M201. Gross Human Anatomy.—Hours and credits (maximum 8 s.h.) by arrangement. Prerequisites: adequate training in comparative anatomy and embryology. DR. MARKEE AND STAFF

M202. Microscopic Anatomy.—Hours and credits (maximum 3 s.h.) by arrangement. Prerequisite: adequate training in histology or cytology.
DR. MARKEE AND STAFF

M203. Anatomy of the Nervous System.—Hours and credits (maximum 4 s.h.) by arrangement. Prerequisite: Anatomy M201. DR. MARKEE

BACTERIOLOGY AND IMMUNOLOGY

M221. Bacteriology and Immunology.—Prerequisites: courses in general zoology, general botany, histology and comparative anatomy, general and organic chemistry. 4 s.h. DR. D. T. SMITH AND STAFF

M323. Advanced Bacteriology and Immunology.—8 s.h.
DR. D. T. SMITH AND STAFF

BIOCHEMISTRY

M241. General Biochemistry.—Prerequisites: general chemistry, organic chemistry, elementary physical and analytical chemistry, and at least one year of college biology.—6 s.h. DRS. PERLZWEIG AND TAYLOR, AND STAFF

M242. Biochemical Preparations.—Prerequisite: Biochemistry M241. 2 s.h.
DR. TAYLOR AND STAFF

M243-244. Physical Chemical and Colloid Chemical Principles of Biochemistry. DR. NEURATH

M341. Pathological Chemistry.—Prerequisites: Biochemistry M241 and Physiology M261-2. DRS. PERLZWEIG, TAYLOR, AND M. L. C. BERNHEIM

M343. Immunochemistry.—2 s.h. DRS. MARTIN AND NEURATH

PHYSIOLOGY, PHARMACOLOGY, AND NUTRITION

M261-2. Human Physiology and Pharmacology.—Prerequisites: Anatomy M201 and Biochemistry M241 (or equivalents) and at least one year of college physics. Credits depending on work taken. (Maximum 8 s.h.)
DR. EADIE AND STAFF

M263. Physiology of Digestion, Metabolism, and Nutrition.—Prerequisite: Biochemistry M241. 2 s.h. DRS. DANN, EADIE, AND F. BERNHEIM

M363-4. Advanced Seminar in Nutrition.—Prerequisites: Biochemistry M241 and Physiology M261 or equivalents. 4 s.h. DR. DANN

THE DIVINITY SCHOOL

Paul Neff Garber, A.B., A.M., Ph.D.
Dean

1943-1944
ANNOUNCEMENTS FOR 1944-1945

THE DIVINITY SCHOOL OF DUKE UNIVERSITY

THE DIVINITY SCHOOL

Trinity College was established by Christian men for the purpose of providing education for young men and women under distinctive Christian auspices. There has been no departure from this clearly defined aim. On the contrary, there has been ever-increasing emphasis placed upon this feature of the work of the College, especially in the provision in the curriculum for a great variety of courses on the Bible and other religious subjects.

Through the gift of James B. Duke, the Divinity School and its curriculum have been separated from the work of the Department of Religion in Trinity College. Among those for whom his gift was intended Mr. Duke placed ministers first. He felt sure that his native state of North Carolina stood in need primarily of a better educated and more efficiently trained ministry. The organization of the Divinity School of Duke University, the first of the professional schools to start its work, is the carrying out of this intention on the part of Mr. Duke. The work of the School began with the academic year 1926-27, though the formal opening exercises were not held until November 9, 1926.

The Divinity School is a member of the American Association of Theological Schools and was included in the list of accredited theological schools approved by the Association in June, 1938.

THE PURPOSE OF THE DIVINITY SCHOOL

Christian work has now expanded to the extent that it covers far more than the work of a preacher or minister. The Divinity School of Duke University purposes to offer training for those engaged in all types of Christian service. This includes missionaries, teachers of Bible and other religious subjects in the schools and colleges of the church, directors of religious education, and social workers. In the future it is planned to fit the courses more completely to the needs of these workers. Still it must be kept clear that the minister in charge of a church, who stands before the people to preach the Gospel of Christ, is the center and key to the whole problem of Christian work in the church. It is felt with strong conviction that the training of all Christian workers should be maintained on a high level. Consequently, the Divinity School is organized on a strictly graduate basis. It is sincerely hoped that the standard thus set may increasingly influence the type of men and women entering Christian work and may lead them to demand the best of themselves in the prosecution of the work of Christ among men.

RELATION OF THE DIVINITY SCHOOL TO DUKE UNIVERSITY

As one of the co-ordinate schools of Duke University, the Divinity School is in closest touch with the other schools, particularly with Trinity College and with the Graduate School of Arts and Sciences. Various privileges of Duke University are open to students of the Divinity School. Students in the School are expected to take part in the religious and social life of the University campus and to share in athletic interest and activities.

REQUIREMENTS FOR ADMISSION

Candidates for matriculation must be graduates of colleges of recognized standing. They will be admitted without examination on presentation of an official transcript of all college credits and such other credits as they may have secured. This applies to students coming from foreign countries as well as to students from institutions in the United States. They must satisfy the Faculty as to their Christian character and purpose. To this end a letter regarding a student's character and purpose from the pastor of his home church, a church official, or a faculty member in the college where he did his undergraduate work, should be presented at the time of admission. Women will be admitted on the same conditions as men. Graduates from nonaccredited institutions may be admitted on probation.

PRESEMINARY CURRICULUM

The Divinity School, in substantial agreement with the standards of the American Association of Theological Schools, recommends that prospective candidates for admission keep in mind the desirability of including the following in their undergraduate curriculum.

Two years' work in English literature and composition.

Two years in a foreign language.

One semester each in psychology, philosophy, and sociology (or economics).

One year in history.

An introduction to the natural sciences with adequate laboratory work (biology or one of the physical sciences).

Proficiency in public speaking.

PART-TIME SCHEDULES

Students who are not giving full time to their studies in the Divinity School may carry only limited schedules of classwork.

BACHELOR OF DIVINITY

REQUIREMENTS FOR GRADUATION

The requirements for the degree of Bachelor of Divinity are ninety-two semester hours, six semester hours of which shall be covered by the writing of an adequate thesis, either in a thesis seminar or under supervised thesis guidance. The course is planned to cover three years, of two semesters each. In no case will the degree of Bachelor of Divinity be conferred on a student until he has spent at least two full semesters in residence in the Divinity School, and has satisfactorily completed a minimum of twenty-four semester hours of work.

THESIS

A thesis is required of all candidates for the degree of Bachelor of Divinity. It shall be of such a character as shall evidence a knowledge of the methods of research and an ability to conduct independent investigations. It shall be written upon some topic in the major field of study. The candidate is responsible for the selection of a suitable subject, which must be approved by the professor in charge of the major field and must be filed with the Dean of the Divinity School on or before October 5 of the academic year in which it is expected that the degree will be conferred. Following the submission and approval of the subject of the thesis no changes will be permitted, except changes for the purpose of clarification or limitation of the subject. A student who does not complete his thesis within a period of three years from the date of the approval of his subject must secure a reapproval of the old subject or the approval of a new subject. The thesis shall be prepared under the supervision and guidance of the professor in charge of the major field. No student shall be allowed to write his thesis *in absentia* except with the approval of the Committee on Theses upon the recommendation of the professor in charge of the thesis. In all such cases regular reports on the progress of the thesis must be made to the professor in charge, as often as he may deem wise.

The thesis shall be between one hundred and one hundred and twenty pages in length, inclusive of introduction, conclusion, appendices, and bibliography, except in unusual cases clearly recognized as such by the Committee on Theses in approving thesis subjects. The student, the director, and the Committee on Theses shall be responsible for the selection and approval of such subjects as can be treated satisfactorily within these limits.

The thesis shall be read by a committee of three members of the Faculty of the Divinity School, consisting of the professor under whose direction the thesis has been written and two other members appointed by the Dean, one of whom shall be of a department other than that in which the thesis is written. Each candidate shall be examined orally on his thesis by the committee appointed to read it, said examination

not to exceed one hour in length. The thesis must be satisfactory to a majority of the members of the Committee of Examination, including the representative of the department in which the thesis was written.

A complete, typed copy of the thesis shall be in the hands of the professor under whom the thesis is written, for correction, by April 19, and three permanently bound typewritten copies shall be presented for examination not later than May 3 of the year in which it is expected the degree will be conferred. Theses submitted after May 3 shall not be considered as fulfilling the requirements for graduation in that academic year. In the case of extensive corrections of the thesis in the course of the examination, such retyping and rebinding of the thesis as the Committee of Examination may desire shall be required.

MASTER OF RELIGIOUS EDUCATION

REQUIREMENTS FOR GRADUATION

The purpose of this degree is to provide a professional course of study for persons desiring to become educational assistants in churches, teachers of religion in public schools, or assistants in similar forms of Christian education.

Candidates for matriculation must be graduates of colleges of recognized standing.

The requirements for the degree of Master of Religious Education are thirty semester hours. The course is planned to cover one year or two semesters. In no case will the degree of Master of Religious Education be conferred unless the student has spent two full semesters in residence in the Divinity School. Approved work towards this degree in the Duke University Summer Session will be accepted in part fulfillment of the requirements for the degree.

The curriculum announced for the degree of Master of Religious Education will be carefully considered during the first years of the experiment and will be modified in the light of experience and results. It is being instituted because of the realization of the great need for trained persons in this field.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF DIVINITY

GENERAL REQUIREMENTS

Ninety-two semester hours are required for graduation. Forty-seven of these must be the following:

Old Testament	6 s.h.
New Testament	6 s.h.
Christian Doctrine	6 s.h.
Church History	6 s.h.
History of Religion and Missions	6 s.h.
Homiletics	5 s.h.
Religious Education	3 s.h.
Psychology of Religion	3 s.h.
Practical Theology	3 s.h.
Philosophy of Religion and Christian Ethics	3 s.h.
	47 s.h.

MAJORS AND THESES

Each student must select a major field in which he elects to write his thesis and in which he must take fifteen semester hours including the general requirement in that field. This choice must be made by the end of the Middle year. A student may take his major in any of the departments of the Divinity School. He may also take his major in English Bible. To major in that field, he must complete in addition to the required work in the Departments of Old Testament and New Testament six semester hours in the Department of Old Testament and six semester hours in the Department of New Testament, exclusive of language.

DISTRIBUTION OF COURSES BY YEARS

Junior Year

Old Testament	6 s.h.
New Testament	6 s.h.
Church History	6 s.h.
Homiletics	2 s.h.
The remaining twelve semester hours shall be chosen from the remaining required courses in the Departments of Practical Theology, Religious Education, History of Religion and Missions, but not more than six semester hours shall be taken in one department. Students desiring courses in Greek and Hebrew may secure a suitable rearrangement of the distribution of courses by years on approval of the Registration Committee.	12 s.h.
	32 s.h.

Middle Year

Christian Doctrine	6 s.h.
Homiletics	3 s.h.
Psychology of Religion	3 s.h.
Philosophy of Religion and Christian Ethics	3 s.h.

After all other required courses are completed, the remainder of the work of this year is elective, but not more than twelve semester hours shall be taken in one department. 15 s.h.

30 s.h.

Senior Year

In the Senior year the student must fulfill all general requirements not completed in the Junior and Middle years. The remainder of the work is elective. 30 s.h.

TABLE OF REQUIRED COURSES

OLD TESTAMENT

203-204. Introduction to the Old Testament 6 s.h.

NEW TESTAMENT

213-214. The Beginnings of Christianity 6 s.h.

CHRISTIAN DOCTRINE

321. Introduction to Theology 3 s.h.
322. Introduction to the History of Christian Thought 3 s.h.

CHURCH HISTORY

233. Church History to the Reformation 3 s.h.
234. History of the Evangelical Movement 3 s.h.

HOMILETICS

141. The Speaking Voice 2 s.h.
342. Theory and Practice of Preaching 3 s.h.

PRACTICAL THEOLOGY

352. Church Administration 3 s.h.

RELIGIOUS EDUCATION

261. The Educational Work of the Church 3 s.h.

PSYCHOLOGY OF RELIGION

371. Psychology of Religion 3 s.h.

PHILOSOPHY OF RELIGION AND CHRISTIAN ETHICS

291. Christian Ethics I 3 s.h.

HISTORY OF RELIGION AND MISSIONS

281. Living Religions of the World 3 s.h.
282. Missions 3 s.h.

REQUIREMENTS FOR THE DEGREE OF MASTER OF RELIGIOUS EDUCATION

GENERAL REQUIREMENTS

Thirty semester hours are required for graduation. Twenty-one of these must be the following:

Religious Education	6 s.h.
Practical Theology	3 s.h.
Psychology of Religion	3 s.h.
Sociology	3 s.h.
New Testament	3 s.h.
Old Testament	3 s.h.

Students who have covered in undergraduate courses the general material in the required courses will not repeat these courses, but will enroll for advanced courses in those fields of study.

ELECTIVES

Nine semester hours are elective, to be selected in consultation with the Dean and the Registration Committee.

DISTRIBUTION OF COURSES BY SEMESTERS

First Semester

Religious Education 261. The Educational Work of the Church	3 s.h.
Sociology 299. Marriage and Family Counseling	3 s.h.
Old Testament 203. Introduction to the Old Testament	3 s.h.
Electives	6 s.h.

Second Semester

Religious Education 362. Materials and Methods of Religious Education	3 s.h.
Practical Theology 352. Church Administration	3 s.h.
Psychology of Religion 372. Genetic Psychology of Religion	3 s.h.
New Testament 214. The Beginnings of Christianity	3 s.h.
Electives	3 s.h.

COURSES OF INSTRUCTION*

This is a condensed description of courses. For a full description, see *Bulletin of the Divinity School.*

OLD TESTAMENT

201-202. First Hebrew.—6 s.h. ASSOCIATE PROFESSOR STINESPRING

203-204. Introduction to the Old Testament.—6 s.h.
PROFESSOR RUSSELL AND ASSOCIATE PROFESSOR STINESPRING

205-206. Elementary Arabic.—6 s.h. ASSOCIATE PROFESSOR STINESPRING

207-208. Second Hebrew.—6 s.h. ASSOCIATE PROFESSOR STINESPRING†

301. Old Testament Theology.—Prerequisite: Old Testament 203-204. 3 s.h. PROFESSOR RUSSELL

303. The Exegesis of Selected Books of the Old Testament.—Prerequisite: Old Testament 203-204. 3 s.h. PROFESSOR RUSSELL

304. Aramaic.—3 s.h. ASSOCIATE PROFESSOR STINESPRING

305. Third Hebrew.—3 s.h. ASSOCIATE PROFESSOR STINESPRING
[Not offered in 1944-45]

309. History of the Ancient Near East.—3 s.h.
ASSOCIATE PROFESSOR STINESPRING

310. Old Testament Prophecy.—3 s.h. ASSOCIATE PROFESSOR STINESPRING

401-402. Thesis Seminar. DEPARTMENTAL STAFF

NEW TESTAMENT

211-212. Hellenistic Greek.—6 s.h., provided the student takes six semester hours in New Testament Greek the following year.
ASSOCIATE PROFESSOR CLARK

213-214. The Beginnings of Christianity.—6 s.h.
PROFESSOR BRANSCOMB AND ASSOCIATE PROFESSOR CLARK

217. The New Testament in Greek.—Prerequisite: six semester hours' study of the Greek language. 3 s.h. PROFESSOR BRANSCOMB

218. Galatians and I Corinthians.—Prerequisite: New Testament 217 or its equivalent. 3 s.h. PROFESSOR BRANSCOMB
[Not offered in 1944-45]

219. Life of Paul.—3 s.h. PROFESSOR MYERS

220. I Peter and the Gospel of John.—Prerequisite: New Testament 217 or its equivalent. 3 s.h. PROFESSOR BRANSCOMB

* On recommendation of the professor in charge of the major field, courses offered in the Graduate School of Arts and Sciences other than those approved for credit in the Divinity School may be approved for credit in individual cases, provided no equivalent course is offered in the Divinity School; each case to be decided on its merits.

† The instructor for the academic session 1944-45 will be Dr. Judah Goldin, Lecturer on Jewish Literature and History.

311. **The Life and Teachings of Jesus.**—Prerequisite: New Testament 213-214. 3 s.h. PROFESSOR BRANSCOMB

312. **New Testament Theology.**—Prerequisite: New Testament 213-214. 3 s.h. PROFESSOR RUSSELL

313. **Apostolic Fathers.**—3 s.h. ASSOCIATE PROFESSOR CLARK

314. **Early Christian Apologists.**—3 s.h. PROFESSOR BRANSCOMB

316. **Hellenistic Religions at the Beginning of the Christian Era.**—Prerequisite: New Testament 213-214. 3 s.h. ASSOCIATE PROFESSOR CLARK

318. **Text of New Testament.**—Prerequisite: New Testament 213-214 and a reading knowledge of Greek. 3 s.h. ASSOCIATE PROFESSOR CLARK

411-412. **Thesis Seminar.** DEPARTMENTAL STAFF

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315. **Judaism at the Beginning of the Christian Era.**—Prerequisite: New Testament 213-214. 3 s.h. DR. GOLDIN

320. **Rabbinic Literature.**—Prerequisite: New Testament 213-214. 3 s.h. DR. GOLDIN

CHRISTIAN DOCTRINE

221. **Plantonism and Christianity.**—Prerequisite: six semester hours in philosophy or its equivalent (Christian Doctrine 321). 3 s.h.
[Not offered in 1944-45] ASSOCIATE PROFESSOR OUTLER

222. **Theology and Philosophy in the Nineteenth Century.**—Prerequisite: six semester hours in philosophy or its equivalent (Christian Doctrine 321). 3 s.h. ASSOCIATE PROFESSOR OUTLER
[Not offered in 1944-45]

321. **Introduction to Theology.**—3 s.h. PROFESSOR ROWE

322. **Introduction to the History of Christian Thought.**—3 s.h. ASSOCIATE PROFESSOR OUTLER

323. **The Christian Conception of the Church.**—Prerequisite: Christian Doctrine 321. 3 s.h. ASSOCIATE PROFESSOR OUTLER
[Not offered in 1944-45]

324. **The Content of Christian Doctrine.**—Prerequisite: Christian Doctrine 321. 3 s.h. PROFESSOR ROWE

325. **Soteriology.**—Prerequisite: Christian Doctrine 321. 3 s.h. PROFESSOR ROWE

326. **Eschatology.**—Prerequisite: Christian Doctrine 321. 3 s.h. PROFESSOR ROWE

327. **Arminian Theology.**—Prerequisite: Christian Doctrine 321. 3 s.h. PROFESSOR ROWE

328. **Current Theology.**—Prerequisite: Christian Doctrine 321. 3 s.h. PROFESSOR ROWE

329. **Seminar in Historical Theology.**—2 s.h. ASSOCIATE PROFESSOR OUTLER

399. **Seminar in Theology and Ethics.**—Prerequisites: Christian Doctrine 322 and Philosophy of Religion and Christian Ethics 291. 2 s.h.
PROFESSOR SMITH AND ASSOCIATE PROFESSOR OUTLER
[Not offered in 1944-45]

423. **History of Christian Thought.**—Prerequisite: Christian Doctrine 321-322. 3 s.h. ASSOCIATE PROFESSOR OUTLER

424. **History of Christian Thought II.**—Prerequisite: Christian Doctrine 321-322. 3 s.h. ASSOCIATE PROFESSOR OUTLER

425. **Seminar in Contemporary Theology.**—Prerequisite: Christian Doctrine 321-322. 2 s.h. PROFESSOR ROWE AND ASSOCIATE PROFESSOR OUTLER

427-428. **Thesis Seminar.** DEPARTMENTAL STAFF

CHURCH HISTORY

233. **Church History to the Reformation.**—3 s.h.
ASSOCIATE PROFESSOR PETRY

234. **History of the Evangelical Movement.**—3 s.h. PROFESSOR GARBER

331. **The Social Message of the Early and Medieval Church.**—Prerequisite: Church History 233-234. 3 s.h. ASSOCIATE PROFESSOR PETRY

332. **The Medieval Church.**—Prerequisite: Church History 233-234. 3 s.h.
ASSOCIATE PROFESSOR PETRY

333. **A History of Christian Renunciation in the Middle Ages.**—Prerequisite: Church History 233-234. 3 s.h. ASSOCIATE PROFESSOR PETRY

334. **Church Reformers and Christian Unity.**—3 s.h.
ASSOCIATE PROFESSOR PETRY

335-336. **The Church in America.**—Prerequisite: Church History 233-234. 6 s.h. PROFESSOR GARBER
[Not offered in 1944-45]

337. **Religion in the Southern States since the Civil War.**—Prerequisite: Church History 233-234. 3 s.h. PROFESSOR GARBER
[Not offered in 1944-45]

339. **Methodism.**—Prerequisite: Church History 233-234. 3 s.h.
[Not offered in 1944-45] PROFESSOR GARBER

431. **Modern Religious Leaders.**—Prerequisite: Church History 233-234. 3 s.h. PROFESSOR GARBER

432. **Religious Leaders of the Early and Medieval Church.**—Prerequisite: Church History 233-234. 3 s.h. ASSOCIATE PROFESSOR PETRY

437-438. **Thesis Seminar.** DEPARTMENTAL STAFF

HOMILETICS

342. **Theory and Practice of Preaching.**—3 s.h. PROFESSOR ————

343. **Sermon Construction.**—3 s.h. PROFESSOR ————

344. **Doctrinal Preaching.**—Prerequisite: Hom. 342. 3 s.h.
PROFESSOR ————

346. **Major Types of Preaching.**—Prerequisite: Hom. 342. 3 s.h.
PROFESSOR ————

347. History of Preaching.—Prerequisite: Hom. 342. 3 s.h.
PROFESSOR MYERS

348. Materials of Preaching.—Prerequisite: Hom. 342. 3 s.h.
PROFESSOR MYERS

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141. The Speaking Voice.—2 s.h. ASSISTANT PROFESSOR WEST

PRACTICAL THEOLOGY

253. Field Work I.—1 s.h. PROFESSOR ORMOND

254. Field Work II.—1 s.h. PROFESSOR ORMOND

352. Church Administration.—3 s.h. PROFESSOR ORMOND

353. The Rural Church.—3 s.h. PROFESSOR ORMOND

354. Parish Evangelism.—3 s.h. PROFESSOR ORMOND

355. Public Worship and Ordinances of the Church.—3 s.h.
[Not offered in 1944-45] PROFESSOR ORMOND

356. The Urban Church.—3 s.h. PROFESSOR ORMOND

358. Church Music.—3 s.h. MR. BARNES

457-458. Thesis Seminar. PROFESSOR ORMOND

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*215. Rural Sociology.—3 s.h. ASSOCIATE PROFESSOR THOMPSON

RELIGIOUS EDUCATION

261. The Educational Work of the Church.—3 s.h. PROFESSOR SPENCE

263. The Principles and Theory of Religious Education.—3 s.h.
PROFESSOR SPENCE

362. Materials and Methods of Religious Education.—3 s.h.
PROFESSOR SPENCE

363. Worship and Drama.—3 s.h. PROFESSOR SPENCE

365. The History of Religious Education.—3 s.h. PROFESSOR SPENCE

366. The Educational and Spiritual Values of Great Literature.—3 s.h.
PROFESSOR SPENCE

461-462. Thesis Seminar. PROFESSOR SPENCE

PSYCHOLOGY OF RELIGION

371. Psychology of Religion.—3 s.h. PROFESSOR HICKMAN

372. Genetic Psychology of Religion.—3 s.h. PROFESSOR HICKMAN

373. Psychology of Preaching.—3 s.h. PROFESSOR HICKMAN

374. Pastoral Psychology.—3 s.h. PROFESSOR HICKMAN

* Course offered in the Graduate School of Arts and Sciences which is credited toward the degree of Bachelor of Divinity.

375-376. Seminar in Mysticism.—3 s.h. PROFESSOR HICKMAN
[Not offered in 1944-45]

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*206. Social Psychology.—3 s.h. ASSOCIATE PROFESSOR ADAMS

*223. Abnormal Psychology.—3 s.h. PROFESSOR LUNDHOLM

*228. Psychology of Belief.—2 s.h. PROFESSOR LUNDHOLM

†459. Introduction to Psychiatry.—2 s.h. PROFESSOR LYMAN

HISTORY OF RELIGION AND MISSIONS

281. Living Religions of the World.—3 s.h. PROFESSOR CANNON

282. Missions.—3 s.h. PROFESSOR CANNON

283. The Religions of the Far East.—3 s.h. PROFESSOR CANNON
[Not offered in 1944-45]

284. Comparative Religion I.—Prerequisite: 281. 3 s.h.
PROFESSOR CANNON

286. Comparative Religion II.—Prerequisite: 281. 3 s.h.
[Not offered in 1944-45] PROFESSOR CANNON

287. Mohammedanism.—Prerequisite: 281. 3 s.h. PROFESSOR CANNON

288. The Religions of India.—3 s.h. PROFESSOR CANNON
[Not offered in 1944-45]

289. Buddhism.—Prerequisite: 281. 3 s.h. PROFESSOR CANNON
[Not offered in 1944-45]

481-482. Thesis Seminar.—Prerequisite: six semester hours in the department. PROFESSOR CANNON

PHILOSOPHY OF RELIGION AND CHRISTIAN ETHICS

291. Christian Ethics I.—3 s.h. PROFESSOR SMITH

292. Christian Ethics II.—3 s.h. PROFESSOR SMITH

393. Religious Thought in Colonial America.—3 s.h. PROFESSOR SMITH

394. Religious Thought in Modern America.—3 s.h. PROFESSOR SMITH

397. Seminar in American Religious Thought.—2 s.h. PROFESSOR SMITH

398. Seminar in Christian Ethics.—2 s.h. PROFESSOR SMITH

399. Seminar in Theology and Ethics.—Prerequisites: Christian Doctrine 322 and Philosophy of Religion and Christian Ethics 291. 2 s.h.
PROFESSOR SMITH AND ASSOCIATE PROFESSOR OUTLER
[Not offered in 1944-45]

491-492. Thesis Seminar. PROFESSOR SMITH

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*203. The Philosophy of Conduct.—3 s.h. ASSOCIATE PROFESSOR MORGAN

* Course offered in the Graduate School of Arts and Sciences which is credited toward the degree of Bachelor of Divinity.
† Course offered in the School of Medicine which is credited toward the degree of Bachelor of Divinity.

*209. **Philosophy of Religion I: Philosophical Introduction.**—3 s.h.
[Not offered in 1944-45] PROFESSOR WIDGERY

*210. **Philosophy of Religion II: Philosophical Introduction.**—3 s.h.
[Not offered in 1944-45] PROFESSOR WIDGERY

*226. **The History of Ethics.**—3 s.h. ASSOCIATE PROFESSOR MORGAN

SOCIOLOGY

At least five semester hours of undergraduate sociology are prerequisite to all courses of the Department, except 236, 238 and 299. Students who have had inadequate undergraduate training in sociology and who wish to pursue further work in the Department are advised to consult with the chairman of the Department of Sociology regarding the removal of their deficiency as soon as possible after matriculation in the Divinity School.

236. **Social Ethics.**—3 s.h. PROFESSOR HART

238. **Religion and the World Crisis.**—3 s.h. PROFESSOR HART

299. **Marriage and Family Counseling.**—3 s.h. PROFESSOR HART

421-422. **Thesis Seminar.** PROFESSOR HART

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*205. **Social Pathology.**—3 s.h. PROFESSOR JENSEN

*206. **Criminology.**—3 s.h. PROFESSOR JENSEN

*212. **Child Welfare.**—3 s.h. PROFESSOR JENSEN

*215. **Rural Sociology.**—3 s.h. ASSOCIATE PROFESSOR THOMPSON

*216. **Urban Sociology.**—3 s.h. ASSOCIATE PROFESSOR THOMPSON

*217. **Race and Culture.**—3 s.h. ASSOCIATE PROFESSOR THOMPSON

*319. **Principles of Sociology.**—3 s.h. PROFESSOR JENSEN

*320. **History of Social Philosophy.**—3 s.h. PROFESSOR JENSEN

* Course offered in the Graduate School of Arts and Sciences which is credited toward the degree of Bachelor of Divinity.

GENERAL INFORMATION

FEES

The tuition charge of $100.00 per semester is remitted to students matriculated in the Divinity School. Therefore they are expected to render from time to time service which shall not interfere with their work in the Divinity School.

Each student is assessed per semester as follows:

Matriculation Fee	$25.00
Library Fee	5.00
Athletic Fee	5.00
Publication Fee (optional)	2.50
Hospital Fee	5.00
Damage Fee	1.00

Each student is assessed, in the last semester before a degree is conferred, a Commencement Fee of $3.00 and a Diploma Fee of $5.00. The latter fee is refunded if the diploma is not awarded.

LATE REGISTRATION

Students matriculating in either semester at a date later than that prescribed in the catalogue shall pay to the Treasurer of the University a penalty of $5.00.

ROOMS

All rooms in the dormitories are provided with heat, water, electric light, and essential furniture. Each student furnishes his own blankets, sheets, pillow slips, towels, and pillows. Students must furnish their own electric lamps, which can be purchased from the University Store.

Rooms for a given year may be engaged at the office of the Director in the Business Division at any time before May 15 of the preceding year. Every student who wishes to retain his room for the succeeding year must notify the office of the Director in the Business Division on or before May 15. All rooms which have not been signed for on or before May 15 will be considered vacant for the succeeding year. A reservation is canceled, and the University is free to rent the room to other students, unless a deposit of $25.00 for each proposed occupant, in part payment of the rent, is made by August 1. Further information concerning the rental of rooms may be secured from the Dean of the Divinity School.

BOARDING HALLS

The University dining hall in the University Union has accommodations for all the resident men students. It is the policy of the University to furnish board to the students at actual cost. The Union is the logical

center of student activities, and all male students are advised to board in its supervised halls.

STUDENT AID

Scholarships are available for students, the terms of which may be ascertained by correspondence with the Dean of the Divinity School. Aid is also given in securing positions in churches. Students who need financial help may be assured that the administration will do all in its power to give the necessary assistance.

N. EDWARD EDGERTON SCHOLARSHIP FUND

In 1939 Mr. N. Edward Edgerton, of Raleigh, North Carolina, an alumnus of Duke University of 1921 and a former president of the Duke University Alumni Association, established the N. Edward Edgerton Scholarship Fund in the Divinity School. The purpose of the Edgerton Fund as specified by the donor is a "scholarship or scholarships to be awarded only to students who are candidates for the B.D. degree in the Divinity School."

THE LIBRARY

The Divinity School has its own library, conveniently housed in the Divinity School Building. The Library, which contains materials dealing with the subject of religion, already numbers over thirty thousand volumes. It has been carefully selected and is the equivalent in working efficiency of many libraries which are much larger. It is already rich in complete files of the more important journals and periodicals, in sets containing source materials for the study of the history of religion and missions, in facsimiles of the more important manuscripts of the New Testament, and in source materials in the field of American church history. The Library is being rapidly expanded. One of the outstanding possessions of the Library is a magnificent Greek manuscript of the thirteenth or fourteenth century containing the entire text of the New Testament.

Besides this special library, students of the Divinity School have the use of the General Library of the University, the Library of the School of Law, and the Library of the School of Medicine. All these libraries are located near the Divinity School Building.

MASTER OF ARTS AND DOCTOR OF PHILOSOPHY DEGREES IN RELIGION

Graduate study in religion leading to the degrees of Master of Arts and Doctor of Philosophy may be pursued under the administrative direction of the Graduate School of Arts and Sciences.

Work toward these advanced degrees is available in three general fields: (1) Biblical Studies (Professor Branscomb, Adviser); (2) Studies in Church History (Professor Garber, Adviser); and (3) Studies in

Christian Theology and Ethics (Professor Smith, Adviser). Courses approved by the Graduate Council for work in these fields are listed in the *Bulletin of the Graduate School.*

Students desiring additional graduate study for a degree beyond that of Bachelor of Divinity should apply to Calvin B. Hoover, Dean of the Graduate School of Arts and Sciences.

FACILITIES FOR ADVANCED STUDY IN THE AMERICAN SCHOOLS OF ORIENTAL RESEARCH

The Divinity School of Duke University is one of the supporting members of the American Schools of Oriental Research. Accordingly, students in the Divinity School have the privilege of attending the American School in Jerusalem or the one in Bagdad without charge for tuition. They may also compete for the financial aids which are offered annually by the Schools. These consist of four fellowships, the stipends depending upon available funds.

RELIGIOUS LIFE

The students of the Divinity School are expected to attend the regular University Chapel services which are held on Thursday of each week. Special chapel services for the Divinity School are held each Tuesday.

In this, as in other features of the University life, the students of the Divinity School are urged to identify themselves with the life of the whole student group.

DATE OF REGISTRATION

Classwork in the Divinity School for the academic session of 1944-45 will begin on Monday, September 25, 1944. The registration of students in the Divinity School will be held on Saturday, September 23, 1944.

ADDITIONAL INFORMATION

Requests for information not contained in this bulletin should be addressed to the Dean of the Divinity School, Duke University, Durham, North Carolina.

THE SCHOOL OF LAW

(IN ASSOCIATION WITH THE LAW SCHOOL OF WAKE FOREST COLLEGE)

H. Claude Horack, Ph.B., LL.B., LL.D.
Dean

1943-1944
ANNOUNCEMENTS FOR 1944-1945

Member of the Association of American Law Schools.
Approved by the American Bar Association.

Summer Semester, 1944, begins May 29, ends September 9; Fall Semester, 1944, begins September 25, ends January 20, 1945; Spring Semester, 1945, begins January 22, ends May 12.

FACULTY—WARTIME PROGRAM

ROBERT LEE FLOWERS, A.M., LL.D., *President of the University*

H. CLAUDE HORACK, Ph.B., LL.B., LL.D., *Dean and Professor of Law (Duke University)*

Ph.B. 1899, LL.B. 1900, State University of Iowa; LL.B. 1904, Harvard University; LL.D. 1937, Tulane University; LL.D. 1939, Wake Forest College; Assistant Professor of Law, University of Wisconsin, 1904-07; Professor of Law, State University of Iowa, 1907-30; University of Michigan, summer 1922; University of Wisconsin, summer 1924; University of Southern California, summer 1931; Stanford University, summer 1936; Adviser, Council of Legal Education and Admissions to the Bar of the American Bar Association, 1927-30, member of Council, since 1940; Secretary, Association of American Law Schools, 1926-28, President, 1929; Professor of Law, Duke University, 1930-34; Dean and Professor of Law, since 1934.

DALE F. STANSBURY, B.S., LL.B., J.S.D., *Dean and Professor of Law (Wake Forest College)*

B.S. 1914, Valparaiso University; LL.B. 1917, Indiana University; J.S.D. 1929, Yale University; Sterling Research Fellow, Yale University, 1928-29; Deputy Attorney General of Indiana, 1918-24, 1928; in private practice, 1925-27; Professor of Law, Mercer University, 1929-35; Dean and Professor of Law, Wake Forest College, since 1935.

BRYAN BOLICH, A.B., B.A. (Juris.), M.A., B.C.L., *Professor of Law*

A.B. 1917, Duke University; Duke University Law School, 1919-21; B.A. (Juris.) 1923, B.C.L. 1924, M.A. 1927, Oxford University; general practice, 1924-27; Professor of Law, Duke University, since 1927.

JOHN S. BRADWAY, A.B., A.M., LL.B., *Professor of Law and Director of the Legal Aid Clinic*

A.B. 1911, A.M. 1915, Haverford College; LL.B. 1914, University of Pennsylvania; general practice, 1914-29; Legal Aid Society of Philadelphia, 1914-20; chief counsel, Philadelphia Legal Aid Bureau, 1920-22; Secretary, National Association of Legal Aid Organizations, 1923-40, President, 1940-42; Visiting Professor of Law and Director of the Legal Aid Clinic, University of Southern California, summer 1928; Professor of Law and Director of the Legal Aid Clinic, University of Southern California, 1929-31; Professor of Law and Director of the Legal Aid Clinic, Duke University, since 1931.

THADDEUS DILLIARD BRYSON, LL.D., *Professor of Law*

Emory and Henry College, 1889-90; University of North Carolina, 1891-95; LL.D. 1938, Emory and Henry College; general practice, 1895-1918; Solicitor, 20th Judicial District, North Carolina, 1908-16; Judge, Superior Court, North Carolina, 1918-26; general practice, 1926-27; Professor of Law, Duke University, since 1927.

ELVIN R. LATTY, B.S., J.D., J.Sc.D., *Professor of Law*

B.S. 1923, Bowdoin College; J.D. 1930, University of Michigan; J.Sc.D. 1936, Columbia University; Instructor in Romance Languages, University of Vermont, 1923-27; general practice, 1930-33; Special Fellow, Columbia University, 1933-34; Associate Professor of Law, University of Kansas, 1934-35; Professor of Law, University of Missouri, 1935-37; George Washington University, summer 1937; Stanford University, summer 1938; University of North Carolina, summer 1942; Special Assistant to the American Ambassador, Caracas, 1942-43; Acting Assistant Chief, Foreign Funds Control Division, Department of State, 1943; Professor of Law, Duke University, since 1937.

CHARLES L. B. LOWNDES, A.B., LL.B., S.J.D., *Professor of Law*

A.B. 1923, Georgetown University; LL.B. 1926, S.J.D. 1931, Harvard University; general practice, 1926-27; Assistant Professor of Law, Georgetown University, 1927-28; Professor of Law, Georgetown University, 1928-30; Research Fellow, Harvard Law School, 1930-31; Professor of Law, Georgetown University, 1931-34; Professor of Law, Duke University, since 1934.

MALCOLM McDERMOTT, A.B., LL.B., *Professor of Law*

A.B. 1910, Princeton University; LL.B. 1913, Harvard University; general practice, 1913-30; Dean, College of Law, University of Tennessee, 1920-30; University of Southern California, summer 1929; Professor of Law, Duke University, since 1930.

EDWIN CONSTANT BRYSON, LL.B., *Lecturer on Legal Bibliography*

CHARLES HENDERSON MILLER, A.B., LL.B., *Lecturer on Legal Bibliography*

DAVID OSWELL WALTER, A.B., A.M., Ph.D., J.D., *Lecturer on Labor Law*

ANNOUNCEMENT FOR SPRING, SUMMER AND FALL SEMESTERS, 1944, AND SPRING SEMESTER, 1945

The Duke Law School, in association with the Law School of Wake Forest College, will continue its Wartime Program which was started in the summer of 1942. Under the plan of joint operation, the two schools will remain entirely separate except that students will meet in joint classes, all of which will be held in the Law Building at the Duke Law School.

Under the Wartime Program, three semesters of law study are given each calendar year, so that the normal full law course of six semesters required for the degree of Bachelor of Laws may be completed in two calendar years. Either beginning or advanced students may enter any semester as the work is so arranged that all subjects will be completed in the semester in which they are offered. Students who so desire, may spread their work over three years by omitting one semester in any one calendar year.

The School reserves the right to make such changes in the program herein described as circumstances may require.

ADMISSION REQUIREMENTS

During the emergency, students with superior grades will be admitted who have completed a minimum of two years of college work at an approved college.

Courses are open to students of any year transferring from schools that are members of the Association of American Law Schools or approved by the American Bar Association.

Applications for admission should be accompanied by a transcript of all previous college or law school work.

TUITION AND FEES

During the joint operation of the two law schools, a uniform charge of $125.00 per semester will be made which will include tuition and fees. A graduation fee of $10.00 is payable by all students to whom a degree is awarded.

DORMITORIES AND THE LAW CABINS

Furnished double rooms in the Law Cabins may be secured at $40.00 per person for each semester. It is expected that a few double rooms will be available in the Graduate Dormitory at $62.50 per person for each semester. Women students may secure rooms on the Woman's College Campus, known as the East Campus, at the same rate per person.

Since the number of rooms available on the campus is extremely limited because of various military units located at Duke University, reservation at the earliest possible time is strongly advised.

Applications for dormitory rooms should not be made until after students have been accepted for admission to the Law School. For dormitory rooms on the Woman's College Campus, address Mr. W. A. Tyree, Director in the Business Division, Woman's College Campus, Durham, North Carolina. For rooms in the Graduate Dormitory or the Law Cabins, address Mr. W. E. Whitford, Director in the Business Division, Duke Station, Durham, North Carolina. A deposit of $25.00 should accompany each application.

THE FIRST-YEAR PROGRAM

Spring Semester—1944
Fall Semester—1944

Subject	*Hours*
Agency	2
Contracts	6
Family Law	2
Possessory Estates	2
Legal Bibliography	1

Summer Semester—1944
Spring Semester—1945

Subject	*Hours*
Criminal Law	3
Introduction to Procedure	3
Personal Property	2
Torts	5
Legal Bibliography	1

THE SECOND- AND THIRD-YEAR PROGRAM

Spring Semester—1944

Subject	*Hours*
Conflict of Laws	3
Constitutional Law	5
Equity I	3
Future Interests	3
Legal Aid Clinic II	2
Municipal Corporations	2
Negotiable Instruments	3
Practice	4
Seminar in Federal Taxation	2
Individual Study and Research	2
Legal Aid Clinic I	3

Summer Semester—1944

Subject	*Hours*
Business Associations II	3
Credit Transactions	4
Equity II	3
Family Law Seminar	2
Labor Law	2
Pleading	3
Sales	2
Individual Study and Research	2

Fall Semester—1944

Subject	*Hours*
Administrative Law	3
Debtors' Estates	3
Equity II	3
Legal Aid Clinic I	3
Legislation	2
Practice	4
Taxation	4
Trusts	3
Individual Study and Research	2

Spring Semester—1945

Subject	*Hours*
Business Associations I	4
Conveyancing	3
Evidence	4
Seminar in Federal Taxation	2
Legal Aid Clinic II	2
Legal Ethics	1
North Carolina Statutes	2
Pleading	3
Wills	3
Individual Study and Research	2

STUDENTS CALLED TO MILITARY SERVICE

Insofar as possible, the Administration of Duke University and the Faculty of the School of Law will endeavor to see that no student suffers loss of academic standing or of fees paid to the University because of being called into the armed forces of the United States. Individual cases will be considered on their merits as they arise.

THE SCHOOL OF MEDICINE

WILBURT CORNELL DAVISON, A.B., B.A., B.Sc., M.A., D.Sc., M.D.
Dean

1943-1944
ANNOUNCEMENTS FOR 1944-1945

Winter Quarter begins January 3, 1944, ends March 25; Spring Quarter begins April 3, ends June 24; Summer Quarter begins July 3, ends September 23; Autumn Quarter begins October 3, ends December 23; Winter Quarter begins January 1, 1945, ends March 24; Spring Quarter begins April 2, ends June 23.

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GENERAL STATEMENT

Duke University School of Medicine and Duke Hospital were established in 1925, through the munificent gift of the late James B. Duke. The *School of Medicine* has been planned to insure the greatest correlation between the various departments. These facilities are available also for students who are studying for degrees other than that of Doctor of Medicine. The School of Medicine has been approved as Class A by the American Medical Association and is also a member of the Association of the American Medical Colleges. On January 3, 1944, three hundred and two students were enrolled.

FACILITIES OF THE HOSPITAL

Duke Hospital has every modern convenience for the diagnosis, proper care, welfare and comfort of the patients, both private and charity, white and colored, whether they come from Durham or from a distance. It has 604 beds, including 50 bassinets for newly born infants. *Medicine,* including dermatology and neurology, has 75 ward beds; *surgery,* including urology, otolaryngology, ophthalmology, and orthopaedics, 143 ward beds; *obstetrics,* including *gynecology,* 56, and 50 bassinets; *neuropsychiatry,* 23; and *pediatrics,* 52. There are 205 private rooms and semiprivate cubicles, 7 air-conditioned operating rooms, and 4 obstetric delivery rooms. Offices and examining rooms for the members of the Medical Faculty are located in the Hospital. The Hospital has been approved for internships and residencies by the Council on Medical Education and Hospitals of the American Medical Association.

Duke Hospital and its Public Dispensary were opened for patients on July 21, 1930. Two hundred and eight thousand, five hundred individuals have been examined, diagnosed, and treated up to June 30, 1943. The average daily census of hospital patients is 425; 82,531 visits were made to the Public Dispensary during the past year. Fifteen per cent of the patients come from within a radius of twenty miles, the remaining 85 per cent come from the other 99 counties in North Carolina and from 27 other states and 3 foreign countries. The average distance traveled by the patients is more than seventy miles.

Every effort is being made to co-operate with the medical profession, and patients are asked to return to the physicians who referred them to the Hospital and Clinic.

Public Ward Patients. Duke Hospital cannot give charity treatment to all who apply; therefore, patients whose incomes are less than $15 per week should apply to the Public Dispensary Division of the Duke Clinic.

Private Patients. Patients who can pay the ward and private rates may at any time, through their family physicians, in consultation with any member of the Hospital Staff, make reservations by telephoning to

the Admitting Office. Appointments for private examinations and treatments may be made in advance by telephoning to members of the Hospital Staff or to the Private Diagnostic Division of the Duke Clinic.

The next class of students will be admitted to the Duke University School of Nursing on September 29, 1944, but applications will be considered at any time. A pre-nursing class will be admitted July 3, 1944. Further information about the entrance and other requirements, length of course, tuition fees, application forms, and bulletins may be obtained by writing to the Dean of the School of Nursing, Duke University, Durham, N. C.

SCHOOL OF DIETETICS

In addition to the training of medical students and nurses in dietetics, ten student dietitians may be admitted to the School of Dietetics and given the certificate of graduate dietitian after the successful completion of one year. The entrance requirements are a Bachelor's degree from an approved university or college, with majors in nutrition and institutional management, and the courses in chemistry, biology, social science, and education recommended by the American Dietetic Association. The course for student dietitians provides instruction in all phases of hospital and institutional dietetics, including experience from the buying and storage of food to its service to the patients according to the physician's orders. In addition, if applying for graduate credit, they will be required to complete the courses in biochemistry, nutrition, and selected portions of physiology as given to the medical students.

More detailed information and application blanks may be obtained from the Professor of Dietetics, Duke University School of Dietetics, Durham, N. C. The course starts the first of July and the first of September. If a student receives advanced credit, a tuition fee of $50 is charged. All students pay a registration fee of $10 at the time of appointment; maintenance is provided.

HOSPITAL ADMINISTRATION

After the war four internships in hospital administration leading to a certificate will again be available to university graduates whose character, tact, and ability for leadership are good, and whose academic standing is high. These internships are of three years' duration and pay a small salary in addition to room, board, and laundry. Vacations of two weeks are allowed at the beginning of the second and third years of internship.

The instruction is practical rather than theoretical in emphasis. The interns are rotated through five different assistant administrative positions in the Hospital. There is also a weekly seminar lasting two hours.

During these three years, the interns also register in the Graduate School of Duke University, and receive the A.M. degree after the successful completion of a thesis and twenty-four semester hours of University courses in various fields. Further information may be obtained by writing to the Superintendent, Duke Hospital, Durham, N. C.

COURSE IN LABORATORY TECHNIQUE

The course in laboratory technique includes training in blood chemistry, clinical microscopy, bacteriology, serology, basal metabolism, and histopathological technique. The course, which is approved by the Registry of Technicians of the American Society of Clinical Pathologists, lasts eighteen months. A new class will be admitted every nine months on the same dates that each class of first-year medical students is admitted. Two years of college work are required with credits in biology or zoology, and inorganic, analytical and organic chemistry. The registration fee is $75, and there are no additional charges, except for breakage. The students live in town at their own expense. Applications may be sent to Dr. David T. Smith, Duke Hospital, Durham, N. C.

ANESTHESIA

A twelve months' postgraduate course in anesthesia is offered to six registered nurses each year. Students are accepted upon individual qualifications each January 15, April 15, July 15, and October 15. The tuition fee of $100 covers all necessary expenses including maintenance.

The training includes two hundred hours of theory and the practical application of all drugs and techniques in modern usage. A graduate of this course is eligible for membership in the American Association of Nurse Anesthetists. Application for appointment may be sent to Miss Mary H. Snively, Duke Hospital, Durham, N. C.

MEDICAL SOCIAL SERVICE

Medical Social case-work service is offered to patients referred by personnel within the Hospital, and by interested individuals and health and welfare agencies outside of the Hospital. Assistance and advice in connection with the problems presented are available to the members of the Staff and referring agencies.

The department assists in teaching social aspects of illness and medical care through consultations and lectures to the various students within the Duke Medical and Nursing Schools. It also serves as an agency for supervised field work for students of the Graduate School of the University of North Carolina. Further information concerning training for advanced students may be obtained from the Social Service Department, Duke Hospital, Durham, N. C.

RECORD LIBRARY

A course for the training of medical record librarians, which has been given full approval by the American Association of Medical Record Librarians, and the American Medical Association, includes all details of the theory and practice of clinical record library methods. The length of the training is twelve months. The tuition fee is $100 and does not include maintenance. Applications may be made to the Medical Record Librarian, Duke Hospital, Durham, N. C.

PHYSICAL THERAPY

Ten students may be admitted to each class and given a certificate of graduation after the successful completion of the course. For the duration of the war the training will consist of nine months. The course is open to men and to women. The curriculum provides instruction in anatomy, physiology, kinesiology, pathology, psychology, electrophysics, neuropsychiatry, and practical pathology. Instruction in the clinical subjects will be given by members of the faculty of the Duke University School of Medicine. Practical training will be given at Duke Hospital and affiliated institutions and includes supervision of orthopaedic problems in the Durham Public Schools. In addition to the training of physical therapy students, courses are given to members of the nursing school and to the medical students. The tuition fee is $200. For further information and for application blanks write to Miss Helen L. Kaiser, Duke Hospital, Durham, N. C.

POSTGRADUATE STUDY

The School of Medicine is not limited to the training of its own students and Staff, but extends to the members of the medical profession the benefit of everything it has. Graduates in medicine are welcomed especially at the various clinics and demonstrations in medicine, surgery, obstetrics, and other specialties, which are held from 9 A.M. to 12:30 P.M. each Saturday and at the clinical-pathological conferences at 5 P.M. on Fridays. Postgraduate internships for one or two weeks are available to physicians in practice. No fees are charged; room and board can be obtained for $20 per week. Further information may be obtained by writing to the head of the department concerned or to the Dean.

INTERNSHIPS AND RESIDENCIES

Internships of nine months' duration with room, board, laundry, and uniforms furnished, but without salary, are available in *medicine, surgery* (including general surgery, urology, and orthopaedics), *orthopaedics, urology, otolaryngology-ophthalmology, dentistry, obstetrics and gynecology, endocrinology, pediatrics, neuropsychiatry,* and *pathology,* commencing January 1, October 1, 1944, and July 1, 1945.

Application blanks for all internships, which must be returned at least three months before the beginning of the internship desired, may be obtained by writing to the Superintendent, Duke Hospital, Durham, N. C. Graduates of any Class A medical school are eligible for internships.

After the completion of an internship in Duke Hospital or in another acceptable hospital, a certain number may be appointed as assistant residents in medicine, surgery, obstetrics and gynecology, pediatrics, psychiatry, neurology, dermatology, orthopaedics, urology, otolaryngology, ophthalmology, roentgenology, pathology, biochemistry, or the Student Health Service, or as fellows of the Private Diagnostic Clinic, at a salary of $250 to $500 per year with maintenance, and eventually may be promoted to the

residency in the various departments or subdepartments of the Hospital at an annual salary of $500 to $1,000 with maintenance. Applications should be made to the head of the department concerned.

LIBRARY

In addition to the General Library of Duke University and the departmental libraries of biology, chemistry, physics, etc., which have 641,809 volumes available for medical students, Duke Hospital Library contains 40,286 volumes of American and foreign medical literature and subscribes to 425 current American and foreign medical and other scientific journals. These books and journals are available daily from 8:30 A.M. to 11:00 P.M. for the students, nurses, Staff, and medical profession.

REQUIREMENTS FOR ADMISSION

Intelligence and character are the essential qualifications for admission. The minimum requirements for admission to this School include approved college credits of not less than three full academic years, which shall include adequate preparation in English, mathematics, physics, biology, and chemistry.* This preparation should be obtained in college courses of one-year duration except for chemistry. In that subject a two-year course is recommended: the first year to cover general (inorganic) chemistry; the second, analytic and organic chemistry.

The premedical student should be aware of the importance of a well-rounded general education as a preparation for the study of medicine and not limit himself to scientific courses. He would be better advised to secure a knowledge of the principles and a thorough appreciation of the interrelations of the basic sciences than to accumulate credits in many courses. He should learn how to work independently, to observe critically, and to analyze, rather than simply store, the information presented. His choice of studies, beyond those required for admission, should be governed by his own chief interests and by the intellectual stimulus to be derived from the work. His major interest may be in any field, scientific or otherwise, and should provide an opportunity for the demonstration of his real ability. In general, he should avoid courses in subjects which are included in the medical curriculum.

The selection of students is based upon the quality rather than the quantity of preparation and upon demonstrated evidence of personal attributes of intelligence, character, and general fitness for the study and practice of medicine. In considering an applicant many sources of infor-

* For the duration of the war, students may be eligible for admission who present collegiate credits of two academic years (four semesters or six trimesters), including English, theoretical and practical courses in physics, biology, general and organic chemistry, completed in approved institutions. These requirements are covered in the fifteen to twenty continuous months of the Army and Navy Specialized Training Programs.

Under present regulations only students who are ineligible for military duty may apply for admission to medical schools during 1945. Applications will be sent to those ineligible for military duty if they will write to the Committee on Admission, Duke University School of Medicine, Durham, N. C. They can be considered for the class starting in July, 1945. All classes before that time are filled. Students who are eligible for military duty will be selected by the Army and the Navy from the ranks, and will be assigned to the various medical schools.

mation may be consulted, including (1) his curricular and extracurricular college record, (2) carefully prepared, confidential appraisals by teachers who know him personally, (3) his percentile rating on the Medical Aptitude Test,* and (4) the results of an interview with members of the Admission Committee or one of its Regional Representatives.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN MEDICINE

After the completion of six quarters in the Duke University School of Medicine, Duke University, on the recommendation of the Executive Committee, grants the degree of Bachelor of Science in Medicine to medical students who have completed creditable investigative work, prepared an acceptable report of the investigation, and passed an examination upon the subject of the investigation before an advisory committee. Students who elect to undertake work toward this degree must obtain written permission from the Executive Committee after approval of their program by the head of the department in which the work is to be done. No credit toward this degree is given for additional college work. All students in good standing are encouraged to undertake such investigative work as they may elect with the approval of the head of the department in which they wish to work. All requirements must be completed three months prior to the date on which the B.S. degree is requested.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF MEDICINE

The degree of Doctor of Medicine is conferred on those who have completed, to the satisfaction of the Executive Committee, the twelve quarters of the curriculum of the School of Medicine, the preclinical and clinical examinations, and have signed an agreement that they will spend at least two of the succeeding three years in hospital or laboratory work acceptable to the Executive Committee. As a guarantee of this pledge, the diploma is deposited in the Treasurer's Office until after the completion of this training. Failure to fulfill this agreement constitutes a waiver of any claim to possession of the diploma and the degree of Doctor of Medicine. One year of active duty with the Army or Navy Medical Corps will be accepted for the second year of the required two years of internship.

* This test is given at many of the colleges. If information is not available locally, it may be secured from Dr. F. A. Moss, Columbia Medical Building, Washington, D. C.

DEPARTMENTS OF INSTRUCTION

Anatomy

The required courses of instruction in gross human anatomy, histology, and neurology are scheduled for five and one half days a week for a period of eighteen weeks during the first quarter and the first half of the second quarter. In all of this work considerable freedom is allowed the student in his selection of working hours and in the planning of his own methods of attack. Emphasis is placed upon the study of material in the laboratory, supplemented by a few lectures and by frequent small-group conferences, upon any phases of the work then current. All of the instruction is designed to be as informal and as nearly individual as possible. General principles and the functional viewpoint of living anatomy are stressed in the hope that the student may be stimulated to secure a working knowledge of anatomy in the broadest sense. Whenever possible, fresh tissues and living cells are made available for examination, and clinical cases exemplifying anatomical principles are studied whenever they are available at appropriate times. Through the co-operation of the Department of Radiology, the students are given an opportunity to study portions of the living human body as revealed by the fluoroscope and roentgenograph.

Demonstrations in Anatomy. Using dissections already prepared, weekly demonstrations of selected regions or systems are made by the members of the group. Sixth quarter—two hours per week by arrangement. Second-year students in groups of 10.

Special Neuroanatomy. Laboratory work and conferences upon selected portions of the human central nervous system. A two-quarter course limited to 6 junior or senior students. Tuesday and Thursday mornings of the first quarter are devoted to study of sections and dissections of the brain stem. Satisfactory completion of the first quarter will determine admission to the second quarter seminars—2 hours weekly by arrangement—upon special topics in neuroanatomy and neurophysiology.

Brain Modeling. Free-hand reconstruction in clay, from gross and sectioned material, of the chief tracts and nuclei of the human brain stem. A two-quarter course, by arrangement—4 to 10 students.

Experimental Neurology. An operative and laboratory study of the effect of various lesions upon the central and peripheral portions of the nervous system. 4 to 8 junior and senior students by arrangement. Prerequisite—operative surgery.

Seminar. This work is designed for those who are interested in becoming acquainted with some of the original literature on anatomical problems. A wide range of choice in the selection of topics is encouraged. Weekly, any quarter; time by arrangement. 6 to 10 students.

Advanced Studies in Anatomy. Further work in the several branches of anatomy may be arranged at any time. Prospective candidates for such work should discuss their wants with the members of the Staff in charge of the particular field in which work is requested, since only a small number can be accommodated at any one time. A few properly qualified students may be permitted to undertake original research under the direction of various members of the Staff.

Biochemistry

The required course in general biochemistry for first-year students is given over a period of eighteen weeks comprising the last half of the second quarter and throughout the third quarter. Two lectures, four laboratory periods, and one conference period per week are devoted first to the correlation of the fundamental facts and theories of physical and organic chemistry of proteins, fats, and carbohydrates with the chemistry of living organisms; followed by an intensive study of the chemical aspects of the processes of digestion, absorption, circulation and respiration, acid-base and salt equilibrium, intermediary and over-all metabolism. Each student carries out on himself a fairly complete, metabolic balance study involving quantitative analyses of blood urine.

Since the success of the students in this course is largely determined by the adequacy and ready availability of their premedical training, it is urged that all students review the fundamental laws, theories, and facts of chemistry before the beginning of the course. A circular outlining the topics requiring special attention is sent to all students upon admission. Additional copies of the circular may be obtained from the Dean's Office. An examination to test the state of preparation of the student is given in the beginning of the course in biochemistry.

Electives. In connection with the course given in the sixth quarter for second-year students a survey of pathological and clinical chemistry is presented. In this course are covered abnormalities of: protein, fat and carbohydrate metabolism, acid-base regulation, salt and water distribution, nitrogen retention, calcium and phosphorus metabolism, blood and derived bile pigments. The discussion of these topics is based upon case histories, including the records of the Clinical Chemical Laboratory of the Hospital.

Biochemical Research. The facilities of the department, including various types of research equipment and the clinical material of the blood chemistry laboratory, are available to properly qualified students for independent or supervised investigations. Chemical investigations of problems in biochemistry or in conjunction with the clinical departments and the Department of Pathology may be carried on.

Seminar in Toxicology. A round-table discussion of the homicidal, suicidal and industrial poisons, alcoholism, etc., by arrangement.

Laboratory Detection of Common Poisons. A laboratory course in the properties, detection, and identification of the common poisons. Consideration is given to the types of material to be examined, legal precautions to be taken and interpretation of the findings, by arrangement.

Chemistry of Proteins, Enzymes, and Viruses. A two-hour seminar is given weekly throughout the Autumn, Winter, and Spring Quarters.

Immunochemistry. A two-hour seminar given in collaboration with the Department of Bacteriology. This course is given in alternate years with the preceding course in protein chemistry.

Physiology, Pharmacology, and Nutrition

The elements of physiology, pharmacology, and nutrition are taught in the laboratory and in frequent conferences.

Research. A few properly qualified students are permitted to undertake original research in physiology, pharmacology, or nutrition under the direction of various members of the Staff.

Pathology

General Pathology. The course in general pathology is given during the fourth and fifth quarter of the curriculum, following completion of the prerequisite courses in anatomy, physiology, and biochemistry. The course in pathology is coordinated with that in bacteriology, the timing and arrangement of the two courses being such that the general principles governing the growth and propagation of bacteria are covered before the students undertake the study of bacterial parasitism in the course in general pathology.

The objects of the instruction in pathology are briefly as follows: (a) to provide an opportunity for the medical student to gain a comprehensive knowledge of general biological principles as they may be observed in the diseased animal, (b) to guide the student in his study of the basic pathological reactions of animal tissues and of the individual as a whole to the environmental influences under which they live, and (c) to acquaint the students with the common disease entities. The course embraces a study of the nature, causation, development and outcome of disease, in brief, a comprehensive study of the reactions of the body to injury. The schedule of instruction falls into three major divisions, each dealing with one of the basic reactions to injury (submission, resistance, adaptation) and the disease entities arising out of their elaboration. A short period of orientation introduces the three major divisions of the schedule.

The permanently preserved materials of instruction consist of (a) a museum of fixed tissues, preserved in unsealed containers in each of which are deposited the organs from a single case, (b) the histological preparations made in the study of these cases, (c) complete clinical and anatomical protocols corresponding to the cases, and (d) a supplementary loan collection of microscopic preparations and lantern slides. These materials are in addition to those from the current autopsies, which average about 325 a year. All materials are catalogued and are grouped in such a way as to facilitate their use by the individual students and by the small groups into which the class is divided.

All the museum work of the class is done with small groups, each under the guidance of a senior instructor and his junior assistant. The

assignment of instructors is changed at appropriate intervals. The chief emphasis of instruction is upon the basic pathological processes underlying the well-established disease entities. The central theme of the course is carried by lectures which orient the museum work of the various student groups. Although the emphasis is upon the basic reactions to injury and the corresponding pathological processes, this is accomplished through the study of actual cases of human disease in which these general pathological processes occur. Disease is presented to the study as a natural phenomenon referable to the body as a whole, and no distinction is drawn between the basic pathological processes as they may happen to occur in the different organs of the body; nevertheless, adequate account is taken of their variations in localization and associated functional disturbances, etc., under different sets of circumstances, as the cases of well-defined disease entities are studied. The histological aspects of the pathological processes are studied coincidentally with the gross anatomical and physiological alterations of the tissues, thus maintaining a unity of conception of disease. As the various pathological processes and the disease arising from their elaboration are studied by the student groups, assignments involving reports on the study of groups of cases are made to individual students.

The group work and the individual student reports are supplemented by weekly conferences involving the class as a whole and dealing with problems presented by current autopsies and with other problems of general importance. Student collaboration in the post-mortem study is required. For this purpose the class is divided into groups of three students. One of these makes a bacteriological study of the case, but each student is required to make his own general pathological study of the case with appropriate protocols. Cases thus prepared are presented by the students before the class under the direction of the Staff; this takes the form of a clinical-pathological conference in which each student plays a separate role.

Elective Courses. Special courses in pathology are given to students who have completed the course in general pathology. These courses are elective and are available through special arrangement.

Clinical Pathological Conference. A weekly clinical pathological conference for advanced study, held during three quarters of the year, is open to all persons interested, but is designed especially for the Hospital and Medical School Staff. Attendance by all the students is encouraged, but is optional. This conference deals with a single case which serves as a text for the discussion of fundamental problems related to the nature, cause, development, and treatment of disease.

On alternate Saturdays a diagnostic clinical-pathological conference is held in collaboration with the staffs of the medical and pediatric departments, dealing with current autopsies from these services. Attendance of the junior and senior students is required at this conference, in which they take an active part.

Miscellaneous weekly clinical-pathological conferences dealing with current cases under treatment on the various surgical services are held for instruction of the resident staffs concerned.

Student Research. Research facilities are provided for competent students. Those who show an interest in investigative work are given every encouragement and are allowed to work independently or in collaboration with the Staff.

Postgraduate Instruction. The Staff of the department is composed of senior nonresident and junior resident members. The junior resident Staff consists of interns, assistant residents, and a resident; all of these are active teachers as well as advanced students of disease. Ample opportunity for the development of careers in the field of pathology is provided for these men. Appointments are renewable over a number of years with appropriate advancement for those who demonstrate ability and adaptability for work in this field.

Medicolegal Instruction. The department works in close cooperation with the local coroner's office. A large proportion of the coroner's post-mortem investigations are made by the Staff. Special medicolegal investigations for others are undertaken from time to time. The department collaborates with other departments of the Medical School and with the Law School in an elective course in legal medicine that is given in alternate years.

Comparative Pathology. The department maintains a pathological diagnostic service for the State Laboratory of Animal Industry, from which valuable materials are obtained for the study of diseases of domestic animals. This connection also facilitates a close collaboration in experimental investigations between the Staff and the Bureau of Animal Industry.

Bacteriology and Parasitology

Bacteriology, Immunology, Parasitology, and Mycology. The required course is given in the fourth quarter. An intensive study is made of the common bacteria, fungi, and parasites which cause disease in man. The scope of the laboratory course is reasonably wide and acquaints the student with all the methods and procedures employed in bacteriological laboratories. Most of the lecture time is devoted to the immunological and epidemiological aspects of infection. The instruction is designed to give the students a clear conception of: (1) how organisms gain entrance to the body, (2) the type of poisons which they produce, (3) the nature of immune bodies which are produced by the host, and (4) the methods of preventing the disease by active and passive immunization.

Research Bacteriology. Opportunities for original investigations are afforded a few specially qualified students.

Clinical Bacteriology. During their clinical clerkships on medicine (one quarter each for junior and senior classes), the students may perform the routine and special bacteriological work for the patients assigned to them on the teaching service, under the direction of the Department of Bacteriology and in parallel with the Biological Division of the medical clinic.

Medicine

Clinical Microscopy is given in the fifth quarter. The course includes the essentials of hematology and the examination of fresh material, such as urine, stools, spinal fluids, sputum, transudates, and exudates. The most important parasites of man are studied by the use of fresh and museum material. Second-year and senior students are given opportunities for special work and for investigation.

Physical Diagnosis and Introduction to Clinical Medicine. This course, in the sixth quarter, consists of instruction in history taking, physical examination, and the application of the preclinical science to the interpretation of findings. All departments, preclinical and clinical, including the specialties, participate. The importance of co-operation between clinic and laboratory is emphasized, and the preclinical departments extend the teaching of their particular branches in correlation with other preclinical and clinical studies. In this manner the course serves as an introduction to clinical medicine. The class is divided into sections of not more than ten students, and each student is given individual instruction.

Junior Medicine. Junior students are assigned in small groups for one quarter to the medical wards as clinical clerks. Teaching rounds are held from 8:30 to 9:30 A.M. on Mondays, Wednesdays, and Fridays. Medical clinics are given on Mondays, Wednesdays, and Saturdays at 11:30 A.M.

Therapeutics. Each group of junior students receives practical instruction in *pharmaceutics* under the guidance of an instructor in pharmacy. On Tuesdays and Thursdays from 1:30 to 2:30 P.M. bedside instruction is given in *applied pharmacology and therapeutics* to the group on Junior Medicine.

Senior Medicine. Senior students are assigned for one quarter to the Dispensary as clinical clerks. Teaching rounds are held from 9:30 to 11:30 A.M. on Mondays and Fridays. Seniors attend medical clinics on Mondays, Wednesdays, and Saturdays at 11:30 A.M.

Cutaneous Medicine and Syphilology. Instruction consisting of lectures, seminars, and study and treatment of patients in the out-patient clinic is offered each quarter to senior students.

Neurological Medicine. A sound understanding of neurological diseases is an essential equipment of every physician. Junior students are assigned neurological cases routinely during their service as medical clinical clerks. An elective course consisting of advanced bedside teaching in clinical neurology is offered for three quarters to senior students. The Laboratory of Experimental Neurology is available for postgraduate investigative work; this laboratory handles routinely the neurosurgical biopsy material, including intracranial tumors. An electro-encephalograph is in routine clinical use in both neurology and neuropsychiatry and is available for special research problems.

Neuropsychiatry

Instruction starts in the first year with an introductory course in psychobiology, including the general presentation of the main reaction types.

In the second year methods of examination and patients are worked up in the out-patient clinic for a period of three and a half weeks. Internships are available in neuropsychiatry, with the expectation that they will lead to progressively greater interests in the neuropsychiatric problems encountered on all other services in the Hospital. Elective work can be arranged for interested persons. Investigation is encouraged.

Surgery

General Surgery. In the sixth quarter the second-year students, during their course in physical diagnosis, attend clinics and demonstrations arranged to familiarize them with the techniques of examinations and the diagnostic procedures used in general surgery and the surgical specialties. Emphasis is placed on the more practical and commonly used methods.

During the last six quarters at 11:30 A.M. on Tuesdays and Fridays and at 9:30 A.M. on Saturdays, clinics in surgery and the surgical specialties are held for junior and senior students. The *junior* students, during their surgical quarter, attend ward rounds in surgery from 8:30 to 10:30 A.M. on Mondays, Wednesdays, and Fridays, act as clinical clerks on the wards, avail themselves of the electives offered, and attend the regular clinics. The surgical group in the *senior* year attends ward rounds from 8:30 to 10:30 A.M. on Mondays, Wednesdays, and Fridays, the regular clinics and the electives offered, and assists in the surgical dispensary in the afternoon. Individuals may take any of the electives offered.

A course in operative surgery is given in the experimental laboratory from 8:30 to 11:30 A.M. on Tuesdays and Thursdays during the quarters necessary to make it available for all students. The group is divided into operating teams, and each student takes his turn serving as the operator, first assistant, and anesthetist. Special work in experimental surgery may be arranged by conference with the instructor. The purpose of this course is to teach the basic principles of aseptic surgery, anesthesia, and the technique of operations illustrating various types of surgery, the operative procedures being of gradually increasing difficulty.

A course in emergency and traumatic surgery is given during the senior surgical quarter. In groups of two, students are assigned to the emergency room for all accidents and emergencies. Opportunity is given to observe and assist in the treatment of accident cases and in the diagnosis and treatment of all emergencies. Lectures are given as indicated. In addition to scrubbing on the emergency cases which they see, these students, in groups of two, are also assigned to the operating room for additional practical experience in surgical technique.

An *elective* course in anesthesia is open to twelve properly qualified senior students each quarter. Students meet the anesthetist each morning in the operating room and observe and administer anesthetics under supervision.

Otolaryngological Division. An introductory course of instruction in the use of otolaryngological instruments, with a review of normal anatomy, is given to second-year students in the sixth quarter. Clinics on

Fridays at 11:30 A.M. during the sixth quarter are given to junior and senior students; junior students during their obstetric quarter spend two afternoons for five and one-half weeks in the otolaryngological dispensary. There are no formal otolaryngological ward rounds, but junior and senior students are assigned to patients during the surgical quarter. Individual instruction is given the student by the various members of the Staff. Each quarter an elective course in ear, nose, and throat is given. This course includes anatomy; physiology; diseases of ear, nose, and throat; x-ray interpretation; and the use of diagnostic instruments.

Ophthalmological Division. During the sixth quarter second-year students receive instruction in elementary ophthalmology. During the senior pediatric quarter the students work in the ophthalmological clinic as assigned, and assist in the study and treatment of eye diseases. Especial emphasis is placed on the underlying medical and surgical conditions. Each student follows throughout his time in the clinic all patients assigned to him. For those who manifest an unusual interest in this specialty, provision will be made for more advanced work. Each quarter an elective is given one hour a week, which includes anatomy, physiology, refraction, muscle imbalance, neuro-ophthalmology, ocular pathology, and the use of diagnostic instruments.

Orthopaedic Division. In the sixth quarter an introductory course is given. During the surgical quarters the junior and senior students attend orthopaedic ward rounds at 9:30 A.M. on Mondays and attend fracture ward rounds at 9:30 A.M. on Fridays. Amphitheater clinics are held one quarter each nine months at 11:30 A.M. on Fridays for juniors and seniors. Students in their senior surgical quarter are assigned in rotation to the orthopaedic dispensary, which is held each afternoon from Monday to Friday, inclusive; these students attend general ward rounds with the orthopaedic staff at 9:30 A.M. on Wednesdays and may attend Journal Club meeting, x-ray conference, and general ward rounds with the Staff from 10:00 A.M. to 1:00 P.M. on Sundays. An elective course in the treatment of fractures is offered during the junior and senior surgical quarters. In this course the students get practical training in the reduction of fractures, the application of plaster of Paris casts, and in the follow-up treatment of fractures. Elective courses in physical therapy and in the care of cerebral palsy patients are offered to the junior and senior students. The latter elective is given at 813 Fifth Street, where the Orthopaedic Division conducts a special clinic for the treatment of cerebral palsy. The clinic has a bed capacity of twelve and is staffed with a specially trained physiotherapist, a schoolteacher, and an administrative officer. The clinic is open at any time to interested students. Arrangements may be made for students who wish to do research or experimental work. Students are given the opportunity of attending the North Carolina Orthopaedic Hospital Clinic at Goldsboro the third Thursday of each month. They may also attend similar clinics held in Lumberton the first Friday of each month, in Elizabeth City the last Tuesday of each month, and in Tarboro the Monday before the last Tuesday of each

month. By special arrangement with the curriculum committee senior students in the surgical quarter may by application do substitute intern work at the North Carolina Orthopaedic Hospital in Gastonia.

Urologic Division. In the sixth quarter, second-year students are given a course of lectures and practical demonstrations in urologic physical diagnosis in the normal individual student. Ward rounds on urologic patients are given every Saturday at 8:30 A.M., throughout the year, which junior students in their surgical quarter, and the senior surgical group are required to attend. During each quarter, small groups are selected from the senior surgical group of students and assigned in rotation to the urologic dispensary every afternoon. Here, under proper supervision, they study patients and give recommended treatment. During one and a third quarters of the year urologic clinics are given on Fridays at 11:30 A.M. for the junior and senior classes. These clinics deal with the affections of the male and female urinary tract and of the male genital tract. Clinics for urethroscopic and cystoscopic investigation and for the more technical methods of urologic diagnosis and treatment are held Monday, Wednesday, and Thursday from 1:30 to 5:00 P.M. and Tuesdays and Thursdays from 9:30 A.M. to 12:30 P.M. throughout the year. X-ray conferences on all urologic cases are held Tuesday, Thursday, and Saturday mornings from 8:30 to 9:30 and are followed by Staff rounds. Three senior students may select one of these cystoscopic clinics, x-ray conferences, and Staff rounds as an elective. *The Urologic Journal Club* meets each Monday from 4:30 to 6:30 P.M., and members of the Staff review their respectively assigned journals. Interested students are welcome.

Neurosurgical Division. Throughout the year at 11:30 A.M., on every third Tuesday, neurosurgical clinics are held for junior and senior students, at which the general principles of neurosurgical diagnosis and treatment are discussed. During all four quarters, weekly ward rounds are held at 8:30 A.M. on Fridays for the senior surgical group. Emphasis in these smaller clinics is placed upon the recognition of neurosurgical problems, followed by observation of the operative and postoperative procedures. Weekly x-ray and pathological conferences are held, and these may be attended by interested individuals.

The Tumor Clinic of the Duke Hospital is organized for the study and student teaching of malignant disease. It is staffed by a surgeon, radiologist, and pathologist, who attend all clinics; and consultants in the various specialties are called when a patient with a malignant tumor in their field is registered in the clinic. Students in their senior surgical quarter see all cases registered in the clinic and work them up and have available for teaching not only the clinical background of the Staff but also pathological sections of tumors under the study of the pathologists.

Dentistry. Second-year students, in the sixth quarter, are instructed in the principles of dentistry.

Radiology

The required course in roentgenology for the fourth-year students is given to a section, one hour per week, each quarter. There is general discussion on roentgen differential diagnosis. X-ray and radium therapy cases are presented each week, and problems of treatment and follow-up are discussed. The correlation of surgery and radiology is stressed.

Elective courses in x-ray interpretation and differential diagnosis are offered for junior and senior students, in limited numbers, on Tuesday and Thursday throughout the four quarters, from 9:30 to 10:30 A.M. The correlation of general medicine and x-ray and the value of x-ray in clinical diagnosis are stressed. A pediatric x-ray conference is held on Friday mornings from 11:00 to 12:00 throughout the year, in the Pediatric Conference room. The pediatric resident presents all cases who have had x-rays during the week. A surgical house staff conference is held each alternate Tuesday night from 7:30 to 8:30, and a similar conference with the medical house staff on the alternate Wednesday nights from 8:00 to 9:00. All cases with interesting x-rays are discussed.

Obstetrics and Gynecology

Second-year students receive seventeen hours of instruction in the fundamentals of obstetrics and gynecology during their course in physical diagnosis in the sixth quarter. Clinics and demonstrations for junior and senior students are held on Saturdays at 10:30 A.M. during the Autumn, Winter, and Spring Quarters and on Mondays at 11:30 A.M. in the Summer Quarters. During one quarter of the *junior* year each group of students attends ward rounds at 8:30 A.M. on Mondays, Wednesdays, and Saturdays, and the Public Dispensary at 1:30 P.M. three times weekly, for eleven weeks. They also attend an endocrine clinic once a week for eleven weeks during the junior year. The students also spend part of each day on the wards. *Senior* students, during their surgical quarter, have ward rounds on obstetrics and gynecology on Saturdays at 8:30 A.M. Each *senior* student, during his senior surgical quarter, spends one week on the delivery floor.

Elective courses in the diagnosis and treatment of obstetric and gynecological conditions are offered for junior and senior students.

Pediatrics

Each *second-year* student receives nine hours of instruction in elementary pediatrics during the course in physical diagnosis in the sixth quarter. *Junior* and *senior* students, during their medical quarters, have pediatric ward rounds on Saturdays, from 8:30 to 9:30 A.M. The *senior* students are divided into three groups, each of which spends one quarter in pediatrics. During this quarter they are assigned daily as clinical clerks on the children's ward, nursery, and pediatric dispensary; attend ward rounds at 8:30 A.M. on Mondays, Wednesdays, and Fridays; are instructed in the practical nursing of infants by Miss Sherwood on Fridays at 9:30 A.M.; and are taught the preparation of diets for infants and

children by the Professor of Dietetics. Each student attends infant feeding clincs on Fridays during this quarter. On Thursdays at 11:30 A.M., the junior and senior students attend demonstrations at which the preclinical basis, as well as the clinical aspects, of disease are emphasized. *Elective courses: senior* students may assist in the treatment of pediatric patients in the syphilis clinic on Thursdays at 9:00 A.M., do research work, or assist in the pediatric ward or dispensary one or more mornings per week, according to the time at their disposal.

Legal Medicine and Toxicology

This course embraces a discussion of the relation of physicians to legal criminal procedures, jurisdiction of the coroner and medical examiner, laws governing the dead human body, personal identity of the living and the dead, the medicolegal autopsy, traumatic injuries and fractures, rape, abortion, asphyxial death, homicidal, suicidal, and industrial poisoning, alcoholism, the examination of blood, stains, fibers, and the detection of malingering. The course is open to junior and senior students, and is given in alternate years. Discussions of medicolegal problems for the house staff and senior students, and joint conferences of the medical and law students also are held.

Preventive Medicine and Public Health

Public Health and Hygiene. A lecture course is given in the second year to acquaint the students with general environmental sanitation including sewage disposal, water supplies, milk and food for rural and urban communities. Vital statistics, public health regulations, and various official public health organizations also are discussed. Exercises in the epidemiology of several diseases are introduced to give the student a broad view of disease and its prevention. *Field Demonstrations.* Visits for observation and instruction are made to state, county, and city health departments, infant and school hygiene clinics, dairies, public water supplies, sewage disposal plants, and industrial establishments. Seminars are held in which the students discuss the various problems encountered in their field experience. *Preventive Medicine.* A series of lectures and exercises is given during the senior year to provide students with the preventive point of view in the practice of medicine. The problems of infant and maternal hygiene, occupational diseases, the deficiency states, and the etiology, transmission, epidemiology and prevention of communicable diseases are considered. Emphasis is placed upon the relationship of the private practitioner of medicine to the public health program. *A Laboratory Course* given in the fourth quarter by the Department of Bacteriology consists of the identification and virulence testing of diphtheria cultures; the isolation of stool, throat, and blood organisms; the practical examination of water; Schick, Dick, and tuberculin tests; and vaccination against typhoid-paratyphoid fever and smallpox. *Elective:* Through the co-operation of several city and county health officers, students may spend one or more weeks in observing and assisting in the operation of these

public health units. Senior students may elect one month's Fellowship in Public Health in Michigan offered by the Kellogg Foundation, if they have permission from the head of the department of the quarter concerned and make up the time afterward.

CURRICULUM OF THE SCHOOL OF MEDICINE

The usual four medical school years of thirty-three weeks each have been accelerated during the war into three calendar years of forty-eight weeks each.

Every effort is made to emphasize the close relationship of preclinical and clinical instruction. Members of the Clinical Staff assist in the teaching of preclinical subjects, and demonstrate to the students of the first two years, patients whose conditions illustrate the subjects being taught. Thus, from the student's first days, he is impressed with the interdependence of all branches of the medical science. In the junior and senior years, preclinical instructors assist the Clinical Staff in presenting the underlying basis of disease.

The free time in this curriculum may be spent in elective work or anything else the student wishes to do. No credits are given, but opportunity is provided for each student on his own initiative to obtain additional training which he may feel to be necessary or desirable. Elective courses have been organized for small groups, or the time may be utilized in independent work (including research) in any department, clinical or preclinical. Arrangements for taking such courses or doing other work are to be made through the Curriculum Committee.

It is hoped that many students will migrate to other medical schools for one or more quarters. Those who wish to do so, or to substitute a program different from that listed below, must obtain permission in advance from the Curriculum Committee.

CURRICULUM OF FOUR QUARTERS OF TWELVE WEEKS EACH

(The hours for these courses will be posted on the bulletin board.)

FIRST YEAR

FIRST SEMESTER: April 1 to August 13, 1943.	HOURS
Anatomy (including histology and neuroanatomy)	702
SECOND SEMESTER: August 18 to December 20, 1943.	
Physiology and Elementary Pharmacology	396
Biochemistry	270
Psychobiology	10
Free time	26

SECOND YEAR

WINTER QUARTER (4th): January 3 to March 25, 1944.	HOURS
Pathology	216
Bacteriology and Parasitology	164
Free time	88

SPRING QUARTER (5th):
April 3 to June 24, 1944.

Pathology	200
Clinical microscopy	120
Public health and hygiene	48
Free time	100

SUMMER QUARTER (6th):
July 3 to September 23, 1944.

Physical diagnosis and introduction to clinical medicine	282
Advanced Pharmacology	72
Free time	114

JUNIOR YEAR

AUTUMN QUARTER (7th):*
October 2 to December 23, 1944.

Medicine (Junior)	468

WINTER QUARTER (8th):*
January 1 to March 24, 1945.

Surgery (Junior)	468

SPRING QUARTER (9th):*
April 2 to June 23, 1945.

Obstetrics and Gynecology (Junior)	384
Neuropsychiatry	84

SENIOR YEAR

SUMMER QUARTER (10th):* HOURS
July 2 to September 22, 1945.

Medicine (Senior)	468

AUTUMN QUARTER (11th):*
October 1 to December 22, 1945.

Surgery (Senior), including urology and orthopaedics	336
Obstetrics	132

WINTER QUARTER (12th):*
January 3 to March 28, 1946.

Pediatrics	209
Surgery	45
Final clinical examinations	24
Preventive medicine	24
Neuropsychiatry	45
Free time	121

SUMMARY

Total number of hours in curriculum	5,616

* The clinical instruction is repeated each quarter in order to utilize all the clinical material and to have small groups of students. Consequently, students may vary the order of the seventh, eighth, and ninth quarters, and also the order of the tenth, eleventh, and twelfth quarters. The above schedule merely illustrates the program of one group.

FEES AND EXPENSES

All fees for each quarter are due and payable at the beginning of each quarter, and no student will be admitted to classes until these fees have been paid at the University Treasurer's Office. A fine of $5.00 is charged for late registration. No credit will be given for any quarter in which the tuition of $150 has not been paid at the Treasurer's Office, whether the work has been done here or elsewhere, except that students who have been permitted by the Curriculum Committee to spend a quarter at another medical school or hospital may subtract the amount of tuition paid at this other medical school or hospital from the $150 due here for that quarter.

It is not advisable for a student to attempt outside work to defray his expenses; the results usually are disastrous to his health and academic standing.

Fees and Expenses

Tuition, per quarter	$150
Health Fee, per quarter	3.33
Athletic Fee, admitting student to all athletic contests held on the University campus during the quarter	5
Room-rent, per quarter* (estimated)	50
Board, per quarter (estimated)	95
Laundry, per quarter (estimated)	10 to 20
Books, per quarter (estimated)	25 to 50
Commencement and Diploma Fees†	8
National Board of Medical Examiners Fees† $25 (Part I), $20 (Part II)	
Microscope, ophthalmoscope, otoscope, and other equipment, which are required of each student and which must conform to rigid standards, may be obtained on a rental basis from the University	25 to 35
Estimated total expenses, per month	135 to 150

ANGIER B. DUKE MEMORIAL AND OTHER LOAN FUNDS

The Angier B. Duke Memorial, Incorporated, administers through an advisory committee of the officers of the University a loan fund for students. In addition, the loan funds of the W. K. Kellogg Foundation and the U. S. Office of Education of the Division of Higher Education of the Federal Security Agency are available for students who are not financially able to meet their expenses. Medical students, after their third quarter, who are ineligible for military service, may apply for loans from these sources. No scholarships are awarded in the School of Medicine. The loan funds are administered in accordance with the following regulations:

* Rooms may be reserved by medical students in Few Quadrangle. These rooms are provided with furniture, heat, electric light, and care of rooms; each student furnisbes his own blankets, sheets, pillow-slips, towels, and pillows. Applications for rooms, accompanied by a reservation fee of $25, sbould be made by writing to Mr. W. E. Whitford, Duke University, Durbam, N. C.

† Payable at the beginning of the quarter in which a student is eligible for a degree or examination.

1. No loan will be made to a student who violates any of the regulations of the University or who is not doing outstanding classwork.

2. Loans will be made only to students who are taking full courses of study that lead to a degree, and all loans must be arranged not later than one week after the beginning of a quarter.

3. Every applicant for a loan must present with the application such security as the President of the University may approve, and no money will be advanced before a note with approved security is in the hands of the Treasurer of the University.

THE SCHOOL OF NURSING

Margaret Isabel Pinkerton, R.N., B.S.
Dean

1943-1944
ANNOUNCEMENTS FOR 1944-1945

Winter Quarter begins January 3, 1944, ends March 18; Spring Quarter begins April 3, ends June 17; Summer Quarter begins July 3, ends September 16; Autumn Quarter begins October 9, ends December 23; Winter Quarter begins January 1, 1945, ends March 17; Spring Quarter begins April 2, ends June 16.

THE SCHOOL OF NURSING

GENERAL INFORMATION

The School of Nursing of Duke University was established in 1925 in connection with the School of Medicine of the University and Duke Hospital through the munificent gift of the late James B. Duke.

The plan of the School is to develop the ability of the nurse to make a maximum contribution to social welfare and progress, and to live an individually satisfying life, through the medium of the service which she renders to individuals, families, and communities in caring for the sick, in prevention of disease, and in conservation of health.

FACILITIES FOR INSTRUCTION

The facilities for instruction include the undergraduate colleges and graduate schools of the University, the School of Medicine, and Duke Hospital.

LIBRARIES

The reference library of books and periodicals of special interest to students majoring in nursing is located in the Nurses' Home Libraries. An auxiliary library, which is used chiefly by freshmen, is in the New Nurses' Home. Students may use the general libraries on the East and West campuses and the Medical School Library.

RESIDENCES

Students are housed in the fireproof residences located near the Hospital. Rooms are adequately equipped with blankets and linen, making further provision by the student unnecessary.

HEALTH REGULATIONS AND PHYSICAL EDUCATION

The School has general supervision of the student's health. All physical defects, such as defective vision, dental needs, etc., must be corrected before admission to the School. The student must have been immunized against typhoid fever and vaccinated against smallpox during the current year. All students are required to pass a physical examination before admission to the School of Nursing and at intervals thereafter, a final examination being given at the end of the course. Exercises for two periods a week during the first quarter are required of all students.

ACTIVITIES OFFERED

Autumn Quarter (October to December): Swimming, tennis, horseback riding, and hiking.

Winter Quarter (January to March): Swimming, basketball, and horseback riding.

Spring Quarter (March to June): Tennis, swimming, and horseback riding.

ADMISSION REQUIREMENTS

Application forms may be obtained by writing to the Dean, Duke University School of Nursing, Durham, North Carolina. They must be typed, a 2 x 2½ inch recent photograph attached, and the application returned to the Dean as soon as possible. Applications are considered in the order received. If the information is satisfactory, a personal interview with the Committee or Regional Representative will be arranged for the applicant. The candidate is notified as soon as possible whether she has been accepted or declined; if accepted, the student must send in a deposit of twenty-five dollars ($25) within two weeks to insure enrollment. This deposit is applied toward her tuition, but is not refunded if the student withdraws her application. The applicant must be within six months of her eighteenth birthday when entering the Duke School of Nursing.

The basic entrance requirements are intelligence, aptitude for nursing, and character. During the war, high-school graduates who have not had college work, including chemistry, should enroll in the special Pre-Nursing Course offered in this School, which will begin July 3, 1944. Those who successfully complete this pre-nursing course, and other students with acceptable college work will begin September 29, 1944. Tuition for the pre-nursing course is $100, and $100 per year for the nursing course. This covers the cost of instruction and maintenance.

Duke University School of Nursing participates in the U. S. Nurse Cadet Corps program. Under this plan, students who pledge themselves to continuing in nursing throughout the war, receive indoor and outdoor uniforms and a small monthly stipend. If a student enrolls on the first month of either her first, second, or third year in the School, she is eligible also for tuition without cost.

FEES

A yearly tuition fee of $100 is required: (a fee of $100 is charged for the Pre-Nursing course) the first year $25 upon acceptance by the School, $25 upon registration, and $50 on September 29, 1944; the second and third years, $50 twice yearly. Twenty-five dollars will be refunded to students who leave the School within one month of registration. There is no charge for room, board, laundry, and uniforms. Estimated additional expenses for the first year, including textbooks, are $30; for the second, $15; and for the third, $15. There is a room key deposit of $1.00; a publications fee of $5.00; a fee of $4.50 before admission for pre-entrance tests; $5.00 for diploma; $5.00 for degree; $5.00 Commencement Fee; a cap and gown rental fee of $1.25 payable on May 1, graduating year.

LOAN FUND AND SCHOLARSHIP

Through the generosity of the Kellogg Foundation, loan funds sufficient to cover tuition costs are available to students who demonstrate a

real need, and who are qualified. There are also a limited number of tuition scholarships for exceptionally qualified students.

READMISSION

Students who are absent for more than one month on account of illness or have leave of absence may be readmitted to the same or a succeeding class at the discretion of the Committee.

VACATIONS

Each year is divided into four quarters of three months each. First-year students have vacations of two weeks at Christmas and two weeks during the summer. Senior students have vacations of two weeks; Junior students, a month.

COURSES OF INSTRUCTION

This is a condensed description of courses. For a full description, see *Bulletin of the School of Nursing.*

Anatomy and Physiology.	Mrs. Moseley, Miss Bain
Bacteriology.	Dr. Conant, Mrs. Moseley
Chemistry.	Dr. Taylor, Miss Bain
Diet Therapy.	Mrs. Elsie Martin
First Aid.	Red Cross Instructor
Gynecology.	Dr. Bayard Carter, Associates, Mrs. Ruth Wilson
Health Education.	Miss Dulin
History of Nursing.	Miss Bain
Medical and Surgical Nursing I and II.	Physician Lecturers, Mrs. Hampton, Miss Bryant
Medicine and Surgery Advanced.	Clinical Supervisors
Nursing Arts I.	Miss Burnham and Assistants
Nursing Arts II.	Miss Burnham and Assistants
Nursing Arts III.	Miss Burnham and Assistants
Nutrition and Cookery.	Mrs. Elsie Martin
Obstetrics.	Dr. Bayard Carter, Mrs. Ruth Wilson
Operating Room Technique.	Miss M. Batchelder
Pediatrics.	Physician Lecturers, Miss M. Sherwood
Elementary Pharmacology.	Mrs. Moseley, Miss Bain
Pharmacology.	Mrs. Moseley
Posture and Massage.	Miss Kaiser
Professional Adjustments I.	Miss Pinkerton
Professional Adjustments II.	Miss Pinkerton and Specialists
Psychiatric Nursing.	Dr. Lyman, Mrs. Riddleberger
Psychology.	Mrs. Riddleberger
Introduction to Public Health Nursing.	Miss R. Hay, Miss M. Blee
Sociology of Nursing.	Mrs. Riddleberger, Miss Barker

THE SCHOOL OF FORESTRY

Clarence F. Korstian, B.S.F., M.F., M.A., Ph.D.
Dean

1943-1944
ANNOUNCEMENTS FOR 1944-1945

FORESTRY IN DUKE UNIVERSITY

GENERAL STATEMENT

Forestry in Duke University began early in 1931, when, through placing the Duke Forest under intensive management for forestry purposes, a substantial beginning was made in laying the foundations for educational work and research in forestry.

An academic-forestry curriculum, designed for students intent upon pursuing the study of forestry, particularly as a profession after graduation, was organized in Trinity College of Duke University in 1932 (see *Announcement on Undergraduate Instruction in Duke University*). This four-year course of study provides only for instruction in fundamental and auxiliary subjects basic to a proper understanding of the highly specialized work in technical forestry. Duke University offers no professional degree in technical forestry available to undergraduates.

Training in technical forestry leading to the professional degrees, Master of Forestry and Doctor of Forestry, is offered in the School of Forestry, and is open to all graduates of the pre-forestry curriculum in Trinity College and to graduates of recognized scientific schools or colleges, universities, and professional schools of forestry.

Duke University is also prepared to offer, through the Graduate School of Arts and Sciences, graduate work in the more scientific aspects of forestry leading to the Master of Arts and Doctor of Philosophy degrees. This work is available to graduates of schools of forestry of recognized standing, and to college or university graduates holding the Bachelor's degree with their major work in appropriate scientific subjects. Undergraduate subjects which the college student, who does not have forestry training but who is contemplating work toward either degree in forestry, should take in preparation for this work may be illustrated as follows: at least two full years in botany, including general morphology or anatomy, the taxonomy, physiology, and ecology of plants; at least one course in zoology or general biology; courses in chemistry, physics, geology, economics, mathematics; and at least two years of French or German.

Several staff members of the Appalachian Forest Experiment Station are engaged in co-operative research projects in the Duke Forest. Specialists from this station and other prominent members of the U. S. Forest Service and representatives of forest and wood-using industries give occasional scheduled lectures at the School.

EDUCATIONAL FACILITIES

The School of Forestry is located partly in Few Quadrangle and partly in the Biology Building along with the Departments of Botany

and Zoology. The administrative offices, two classrooms, and the forest mensuration and statistical laboratory are in Few Quadrangle, while other laboratories and offices and the School Library are in the Biology Building. The Biology Building contains, in addition to classrooms, laboratories, and offices, a library, three refrigerated rooms, an incineration room, a workshop, and eight dark-rooms. The School is provided with instruments and tools for use in both field and laboratory work in silvics, silviculture, and forest mensuration. Modern surveying instruments and accessory equipment are available for work in forest surveying.

Laboratories for work in wood anatomy and properties are provided with microtechnique and photomicrographic instruments, wood-working machinery, a Henderson dry kiln, and a 50,000-pound Olsen Universal timber-testing machine. A modern forest soils laboratory equipped for physical and chemical studies is available. In the field of seasoning and preservation of wood a commercial-sized, single-compartment dry kiln and a fully equipped experimental pressure treating cylinder are available for instruction and research.

Facilities are also available for advanced work in plant physiology, plant anatomy, plant taxonomy, genetics, plant ecology, plant pathology, and the several branches of zoology. Many rooms in the Biology Building are equipped with vacuum, compressed air, direct and alternating electric current, gas, and running water.

The forestry section of the Library contains a growing collection of material on forestry, soils, and closely related subjects. It includes important books and periodicals in English and in French, German, and certain other foreign languages. The Library is well provided with American material, including Federal and State documents and reports. Over 150 periodicals and serials of importance in forestry and related fields are received by subscription or exchange.

Greenhouses, connected to the Biology Building through a soil-storage and work room, provide adequate space for experimental work.

A nursery has been established by the University for the joint use of the Sarah P. Duke Floral Garden, the Botany Department, and the School of Forestry. The forestry section of this nursery is used mainly for the growing of planting stock for the Arboretum and trees needed for research or other special purposes.

THE DUKE FOREST

The Duke Forest, located in Durham and Orange counties, North Carolina, consists of three main units; namely, the Durham, New Hope Creek, and Hillsboro divisions. Early in the development of Duke University it was recognized that the possession of such an area offered an unusual opportunity for the development of educational work in forestry.

Situated on the lower Piedmont plateau at elevations ranging from 280 to 650 feet, and composed of second-growth shortleaf and loblolly pines, oak, gum, hickory, maple, yellow poplar, ash, and other hardwoods, the Forest is representative of the various types of timber growth found

throughout the region. Over a hundred different species of trees are found within or near the Forest. The land is rolling and there is relatively little rock outcrop, swamp, or other land of low productivity for timber growing. The total area of the Forest proper, exclusive of the University campus, is approximately six thousand acres.

THE ARBORETUM

Of outstanding value in the teaching of both forestry and botany in the future is the provision for development of an arboretum. In their annual meeting on June 4, 1934, the Board of Trustees of Duke University, upon the recommendation of their Forestry Committee, voted to set aside permanently an area of over three hundred acres in the Forest to be used for arboretum purposes. The area lies adjacent to the main University campus immediately across the road from the Chapel.

Through the generosity of the late W. W. Flowers, of New York, a member of the Class of 1894 and a Trustee of the University, it has been possible to develop preliminary plans and to make a number of plantings. This is naturally a long-time project, and many years will elapse before the Arboretum will be most useful and most attractive. The University Trustees' Committee on Forestry in their report to the Board refers to the Arboretum as follows:

"The Arboretum should serve as a station for the study of trees and woody plants as individuals and in small groups in their scientific relations, economic properties, and cultural characteristics, requirements, and possibilities. It should render an economic service by acting as a research laboratory where trees and shrubs can be studied from the viewpoint of a fuller utilization of their commercial possibilities. It should render a cultural service by serving as a center where foresters, landscape architects, nurserymen, gardeners, and the general public may increase their knowledge of indigenous trees and shrubs and where they may become acquainted with the foreign species that can be grown here. Within the University the Arboretum will supply living specimens and material for several branches of botany and forestry."

The development of the Arboretum will proceed along these lines as rapidly as available funds and planting stock will permit.

FELLOWSHIPS, SCHOLARSHIPS, AND RESEARCH ASSISTANTSHIPS IN FORESTRY

A number of fellowships, scholarships, and research assistantships are available to men who offer promise of becoming leaders in the forestry profession. These will be awarded for high character and marked scholastic ability as judged by education, experience, and personal references.

Holders of the awards will pay tuition and such additional fees as are regularly required.

The awards are of three classes with stipends and special conditions as follows:

(1) Fellowships of $400 and $600 each. Each recipient must have previously completed work equivalent to that required at Duke University for a Master's degree with major in forestry or in a discipline basic to forestry. He will devote his entire time to an approved program of study and research in any of the branches of forestry. He is expected to become a candidate for the degree of Doctor of Forestry or Doctor of Philosophy.

(2) Scholarships at $250 each. Each recipient will normally devote his entire time to an approved program of study leading to the degree of Master of Forestry or Master of Arts with a major in forestry.

(3) Research assistantships of $500 each. Each recipient will devote half-time to field, laboratory, or other work of the research program of the School of Forestry. He will be permitted to enroll for not more than 20 semester hours in a school year on a program of study, or study and research, leading to the degree of Master of Forestry, Master of Arts, Doctor of Forestry, or Doctor of Philosophy.

The following arrangements are common to all fellowships, scholarships, and research assistantships in forestry:

(1) Each applicant must have received a Bachelor's degree from an acceptable professional school of forestry or must be a graduate of a recognized college or university. If an applicant is not a graduate of a school of forestry, he must have had major work in botany or soil science and in the allied basic sciences. Each applicant must show reasonably high scholarship. Preference will be given to men who have already obtained technical or professional training in forestry.

(2) It is highly desirable that each applicant state as specifically as possible the field in which he wishes to study. The definite selection of a major field of work—one that is specific in purpose and involves training both in fundamentals and in technique—is very helpful to the Committee on Awards.

(3) Application blanks for fellowships, scholarships, and research assistantships may be obtained by writing to the Dean of the School of Forestry, Duke University, Durham, North Carolina. When the blank has been filled out by the applicant, it should be returned to the above address, and an *official transcript of record* showing college or university credits must accompany it or be forwarded promptly. The application and transcript must be filed not later than March 1 for consideration for the following academic year. In case vacancies occur, applications submitted on a later date may be considered.

REQUIREMENTS FOR ADMISSION TO THE SCHOOL OF FORESTRY

The following general requirements of the School of Forestry apply to candidates for the Master of Forestry degree:

Admission to the School of Forestry presupposes that the applicant is either a graduate of a scientific school, college, or university of high

standing, but without professional training in forestry; or that he is a graduate of a professional school of forestry of recognized standing. He will present not less than four years of credit of collegiate grade, with at least as many quality points as hours.*

An applicant with no professional training in forestry will present a certified transcript of his academic record showing that he has had conferred upon him a degree in arts, science, or engineering; and that he has satisfactorily completed undergraduate work in minimum amount as follows:

One year of botany, including the morphology, physiology, and identification of plants.

One year each of English and of chemistry.

One course each in physics and in the principles of economics.

Mathematics, through college algebra and trigonometry.

It is urged that an applicant without professional training in forestry present additional credits in the above subjects and in one or more of the following subjects: soils, geology, mineralogy, petrology, climatology, surveying, languages (particularly German and French), sociology, political science, philosophy, psychology, and zoology.

An applicant who is a graduate of a professional school of forestry of recognized standing will present a certified transcript of scholastic record showing the award of a degree. Before registering for the first semester of residence, such applicants will be required to select the branch or branches of forestry in which they wish to concentrate the major part of their work and to prepare their proposed programs in conference with the appropriate faculty adviser.

Students must make application for admission in advance of the opening of the school year. Those students entering without acceptable courses in plane surveying, forest surveying, and forest mensuration must take the twelve weeks of work in these subjects in the Summer Session, and are required to submit their applications prior to May 1. Students entering with advanced standing in surveying and forest mensuration should make application before September 1. Application blanks will be sent upon request made to the Dean of the School of Forestry.

REQUIREMENTS FOR THE DEGREE OF MASTER OF FORESTRY

The degree of Master of Forestry (M.F.) is conferred upon students who have satisfactorily completed two years of study in technical forestry and one term of twelve weeks' work in plane surveying, forest surveying, and forest mensuration in the Summer Session. In addition to the summer school work a total of not less than sixty semester hours' credit is required for the M.F. degree, of which at least fifty-five shall be obtained

* Grades for each hour of college credit and also for credit earned in the School of Forestry are valued in quality points as follows: "A," 3 points; "B," 2 points; "C," 1 point; "D," no points; and "F," no credit and —1 point.

in the School of Forestry. Each student must obtain at least as many quality points as semester hours' credit under the quality-point system described in footnote 1 of the preceding section.

A two weeks' field trip to typical timber-harvesting, manufacturing, and other forestry operations in the South is conducted by the School and is required as a part of the work in Forest Products Industries (Forestry 212). Other students in the School of Forestry may be permitted to take this trip as opportunities will be available for special work and observations in other branches of forestry in forest types not represented in the Duke Forest. One semester hour of credit may be earned for participation in the field trip by registering for it in Forestry 212A.

No student may take less than fifteen or more than eighteen hours in any one semester without special permission of the School of Forestry Faculty. The following work will ordinarily be required of all candidates for the M.F. degree:

SUMMER SESSION

	S.H.
Plane Surveying (C. E. S110)	3
Forest Surveying (F. S150)	5
Forest Mensuration (F. S151)	4

FIRST YEAR

First Semester	S.H.	*Second Semester*	S.H.
Harvesting Forest Products (F. 211)	3	Forest Products Industries (F. 212)	3
Forest Entomology (F. 231)	3	Forest Pathology (F. 224)	4
Sampling Methods (F. 251)	2	Dendrology (F. 254)	2
Dendrology (F. 253)	2	Silvics (F. 264)	3
Wood Anatomy & Properties (F. 259)	3	Electives	
Forest Soils (F. 261)	3		

SECOND YEAR

Silviculture (F. 265)	5	Forest Valuation (F. 282)	3
Forest Economics (F. 279)	3	Seminar (F. 292)	1
Forest Management (F. 281)	4	Thesis	
Thesis		Electives	
Electives			

These are the normal requirements for the Master of Forestry degree, but for the duration of the war a student, upon the recommendation of his adviser and approval by the Faculty, may substitute other available work for such required courses as are not offered while the student is in residence.

Each candidate is required to file in the office of the Dean of the School of Forestry on or before May 1 three copies of a thesis, typewritten and bound in accordance with regulations set forth by the Faculty. The thesis shall be based upon an original study made in the field, laboratory, or library.

Work of equivalent grade done in residence at recognized schools of forestry may, with the approval of the Faculty, be accepted as credit

toward the M.F. degree. A minimum of one year's residence is required at Duke University. Students who have had satisfactory undergraduate training in forestry may, with the approval of the Faculty, elect to devote the major portion of their time to research under the supervision of one or more members of the Faculty and prepare a more comprehensive thesis than is required of students entering the School without previous work in forestry. Students in the School of Forestry may take in allied departments of the University as electives certain courses approved by the Faculty.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF FORESTRY

THE DEGREE

The degree of Doctor of Forestry is a research degree. It is based primarily upon evidence of high attainments in a special field of forestry knowledge and upon the production of a thesis embodying the results of original research. It is not based merely upon the completion of a prescribed period of study or upon the obtaining of credit for a given number of courses.

A student who plans to enter upon a program of work leading to the degree of Doctor of Forestry should consult or enter into correspondence with the Dean of the School of Forestry. He will then be advised as to the possibility of obtaining the necessary instruction and supervision of research in the special field desired.

RESIDENCE

The normal period of resident graduate study, following satisfaction of the general requirements for admission to the Duke School of Forestry, is a minimum of two academic years after the student has obtained the graduate professional degree of Master of Forestry, or its equivalent. At least one of these two years of graduate study must be spent in actual residence at Duke University. With the approval of the Faculty of the School of Forestry work of equal grade done in residence at another college or university, or at a research station or institute not connected with a college or university, may be accepted toward a Doctor of Forestry degree. Only in connection with the preparation of the thesis will work be accepted that has been done elsewhere than in residence at a college, university, research station, or institute. A student whose undergraduate work is insufficient in amount or unsatisfactory in character may be required to spend additional time in preliminary courses essential as a basis for the graduate work he proposes to undertake.

Students whose research is concerned with the study of trees and forest stands in the Duke Forest during the growing season may find it necessary to be at the University during the summer.

Credit for one year of work done in regular terms of the Summer Session at Duke University may be given with the approval of the School

of Forestry Faculty. Except in unusual cases, graduate work of fragmentary character taken over a long period of years, or work completed many years before the student becomes a candidate for the degree at Duke University, will not be accepted as satisfying the requirements of residence.

APPLICATION FOR CANDIDACY

No student will be admitted as a candidate for the degree of Doctor of Forestry until he has obtained the professional graduate degree of Master of Forestry or its equivalent, either at Duke University or at a professional school of forestry of recognized standing. A student desiring to become a candidate for the Doctor of Forestry degree is ordinarily required to file with the Dean of the School of Forestry, at the beginning of his graduate work toward this degree, a formal application indicating in which field and under what professor he proposes to carry on research. A committee of the Faculty will then be appointed to supervise the student's work, with the professor in charge of his research as chairman. If and when the committee finds that the preliminary requirements of the major field have been satisfied, the chairman of the committee will report the fact in writing to the Dean of the School of Forestry. In the case of students who come to Duke University for only the last year of graduate work, and in special cases approved by the School of Forestry Faculty, the application for recognition as a candidate for the Doctor of Forestry degree may be filed later than provided above, but not later than October 15 of the academic year in which it is desired that the degree be conferred.

PROGRAM OF STUDY

The program of study of a candidate for the Doctor of Forestry degree will be arranged after consultation with the committee provided for in the preceding section and is subject to the approval of the Dean and Faculty of the School of Forestry. The student must select a major field and one or two minor related fields. Both major and minor may be selected in different branches of forestry or the minor may be taken in a related field in some other school or department of Duke University.

FOREIGN LANGUAGES

A reading knowledge of two foreign languages is required. One language shall be either French or German, and the other optional to fit the requirements of the student's problem. No student may come up for his preliminary examination before having satisfied the language requirements for the Doctor's degree. Foreign language examinations are conducted by the appropriate language department or, in special cases, by a qualified member of the Faculty of Duke University.

PRELIMINARY EXAMINATION

Toward the end of the first full year of graduate work for the Doctor of Forestry degree (or in special cases early in the second year), a preliminary examination of each candidate will ordinarily be held covering the general field of his studies. This examination will be conducted by the committee in charge of the student's work and will be written. A student who passes the examination will be recognized as a candidate for the Doctor of Forestry degree. A student's major and minor subjects will ordinarily be included in this preliminary examination.

If a student fails on his first examination, he may make a second attempt after six months upon recommendation of his committee and the approval of the Dean of the School of Forestry. Two failures on this examination make the student ineligible to continue work toward the Doctor of Forestry degree at Duke University.

THESIS

The thesis for the Doctor of Forestry degree must be a contribution to knowledge. The subject of the thesis must be filed with the Dean of the School of Forestry on or before October 15 of the academic year in which the candidate desires to take the final examination for his degree. The subject must receive the written approval of the professor under whom the thesis is being written and of the Dean of the School of Forestry. The thesis must be completed to the satisfaction of the major professor. Four typewritten copies in approved form must be deposited with the Dean of the School of Forestry on or before April 15 if the student desires to be examined on the thesis in the same academic year. The title page must be approved by the Dean of the School of Forestry. Two of the copies, the original and a carbon copy, are placed in the School of Forestry library, one copy goes to the major adviser, and one is returned to the student.

The candidate's thesis must be published either in its original form or in a modified form approved by the Dean of the School of Forestry and the committee in charge of the candidate's work. In its published form the title page should include this statement: "A Thesis Submitted in Partial Fulfillment of the Requirements for the Degree of Doctor of Forestry in the School of Forestry of Duke University." Ten copies of the published thesis should be deposited in the office of the Dean of the School of Forestry within a reasonable time after publication. The degree will not be conferred until publication of the thesis, in approved form, within three years has been guaranteed in a way satisfactory to the Dean of the School of Forestry and the professor under whom the thesis was written.

FINAL EXAMINATION

The final examination will be on the thesis and on related subject matter and will be oral. Approximately one year must elapse between the dates of the preliminary examination and the final examination, except

in special cases approved by the School of Forestry Faculty. Two failures on this examination make a student ineligible to continue work toward the Doctor of Forestry degree at Duke University. The second examination may be given only upon the recommendation of the professor in charge of the thesis and the approval of the Dean of the School of Forestry.

GRADING

Members of the Faculty are expected to report grades of graduate students to the School of Forestry Office not later than February 15 for the first semester and not later than June 15 for the second semester on the cards provided for that purpose. An average grade of "B" or better will be required for all work, beyond that for the degree of Master of Forestry, that is to be credited toward the Doctor of Forestry degree. A mark of "Incomplete" may be given when a student has failed, for an acceptable reason, to complete some portion of the required work in which his standing is generally satisfactory. Unless a report is made within one year that the work has been satisfactorily completed, all credit will be lost.

FORESTRY IN THE GRADUATE SCHOOL

Graduate work toward the Master of Arts and Doctor of Philosophy degrees in the more scientific branches of forestry is available to adequately prepared students at Duke University. This work is given through the Division of Forestry of the Graduate School of Arts and Sciences by certain members of the School of Forestry Faculty.

The following special conditions will influence the acceptance of students for graduate study in forestry: The student must have received a degree from a professional school of forestry of recognized standing or from an approved college or university. Graduates of professional schools of forestry must also have had adequate training in liberal arts and sciences, approximating 86 semester hours, before being admitted to candidacy for the Master of Arts or Doctor of Philosophy degrees. College graduates who have had specialized training in botany or soil science and in allied basic subjects, such as physics, chemistry, geology, and zoology, may pursue graduate study and research only in the specialized fields for which their previous work has qualified them.

The Forestry Staff will determine whether a student is qualified to pursue graduate study in any of the special fields of forestry in which work is available.

The Master of Arts and Doctor of Philosophy degrees are attained through scientific work rather than technical or professional training in forestry. Work for these degrees may be pursued only in forest-tree physiology, wood anatomy and properties, forest pathology, forest entomology, silvics, forest soils, forest mensuration, forest management, and forest economics, except that a major cannot be taken in forest management. A student upon registration chooses a field of study which may lie in two or more departments. The members of the Graduate School Faculty best qualified in that field are named as the student's advisory committee, regardless of the department of which they are members. This committee will advise the student in the planning and conduct of his work and will evaluate it when completed.

A reading knowledge of French and German must be acquired early in the course of graduate study in forestry because much of the forestry literature of the world is written in or has summaries in these languages. For the Ph.D. degree the language requirement must be met before the preliminary examination is taken and usually before the preparation of the thesis is begun.

The length of time required for a student to obtain the Master of Arts and Doctor of Philosophy degrees in forestry is determined by the character of his previous work and by the quality of his work in the Graduate School. Upon the recommendation of the Forestry Staff and

with the approval of the Council on Graduate Instruction, work of equal grade done in residence at another college or university, or at a research station or institute not connected with a college or university, may be accepted toward a Ph.D. degree, but at least the last year or the first two years of graduate study must be spent in actual residence at Duke University. Only in connection with the preparation of the thesis will work be accepted that has been done elsewhere than in residence at a college, university, or research station.

Students whose research is concerned with the study of trees and forest stands in the Duke Forest during the growing season may find it necessary to be at the University during the summer.

The field of study may include advanced work in allied subjects as well as advanced work in forestry. The student should have covered, however, most of the basic subjects prior to entering the Graduate School. The required advanced work will depend upon the student's previous training and the special field of study selected. Before beginning his work the student must obtain approval of his proposed program of study, including the plans for the research for his thesis. Courses of study must be correlated with each other and with the thesis research.

For further information on requirements for admission to the Graduate School of Arts and Sciences and on the general requirements for the Master of Arts and Doctor of Philosophy degrees reference should be made to the *Bulletin of the Graduate School of Arts and Sciences.*

COURSES AND SUBJECTS OF INSTRUCTION

This is a condensed description of courses. For a full description, see *Bulletin of the School of Forestry.*

IN THE SUMMER SESSION

C.E. S110. Plane Surveying.—3 s.h.
Professors Bird and W. H. Hall and Mr. Williams
[Not offered summer 1944]

S150. Forest Surveying.—Prerequisites: Civil Engineering, S110, plane surveying, or equivalent. **5 s.h.** Associate Professor Maughan
[Not offered summer 1944]

S151. Forest Mensuration.—4 s.h. Professor Schumacher

FOR SENIORS AND GRADUATES

211. Harvesting Forest Products.—3 s.h. Professor Wackerman

212. Forest Products Industries.—3 s.h. Professor Wackerman

213. Seasoning and Preservation of Wood.—3 s.h.
Professor Wackerman

214. Marketing Forest Products.—Prerequisites: Forestry 211 and 212, or equivalents. **3 s.h.** Professor Wackerman

224. Forest Pathology.—Prerequisites: Botany 1 and 2, and Forestry 253, or equivalents. **4 s.h.** Professor Wolf

231. Forest Entomology.—3 s.h. Professor Beal

236. Forest Game Management.—3 s.h. Professor Beal

251. Sampling Methods in Forestry.—Prerequisite: Forestry S151. **2 s.h.**
Professor Schumacher

252. Forest Mensuration.—Prerequisite: Forestry 251. **2 s.h.**
Professor Schumacher

253. Dendrology.—Prerequisite: one year of botany. **3 s.h.**
Professor Beal

256. Wood Pulp and Pulp Products.—Prerequisites: Forestry 212 and 259, or equivalents. **3 s.h.** Associate Professor Harrar
[Probably not offered 1944-45]

257. Design of Forestry Experiments and Analysis of Data.—5 s.h.
Professor Schumacher

259. Wood Anatomy and Properties.—Prerequisites: one year of botany and Chemistry 1 and 2, or equivalents. **3 s.h.**
[Probably not offered 1944-45] Associate Professor Harrar

260. Timber Mechanics.—Prerequisites: Physics 1 and Forestry 259, or equivalents. **3 s.h.** Associate Professor Harrar
[Probably not offered 1944-45]

261. **Forest Soils.**—Prerequisites: Chemistry 1 and 2, and Physics 1, or equivalents; physical geology and analytical chemistry are also desirable. 3 s.h. ASSOCIATE PROFESSOR COILE
[Not offered 1944-45]

264. **Silvics.**—Desirable prerequisites: plant physiology, plant ecology, and Forestry 253 and 261, or equivalents. 3 s.h. PROFESSOR KORSTIAN

265. **Theory and Practice of Silviculture.**—Prerequisite: Forestry 264 or equivalent. 5 s.h. PROFESSOR KORSTIAN

266. **Forest Seeding and Planting.**—2 s.h. PROFESSOR KORSTIAN

273. **Forest Protection.**—2 s.h. ASSOCIATE PROFESSOR THOMSON
[Not offered 1944-45]

276. **Forestry Policy.**—2 s.h. ASSOCIATE PROFESSOR THOMSON
[Not offered 1944-45]

279. **Economics of Forestry.**—Prerequisite: at least one course in the principles of economics. 3 s.h. PROFESSOR WACKERMAN

281. **Forest Management.**—Prerequisites: Forestry S150, S151, and 251, or equivalents. 4 s.h. ASSOCIATE PROFESSOR MAUGHAN

282. **Forest Valuation.**—Prerequisite: Forestry 281 or equivalent. 3 s.h. ASSOCIATE PROFESSOR MAUGHAN

292. **Seminar.**—1 s.h. THE STAFF

211A to 282A. **Special Studies in Forestry.**—Credits and hours to be arranged. THE STAFF

FOR GRADUATES

301-302. **Advanced Studies in Forestry.**—Credits to be arranged.

a. **Silvics.**—Prerequisites: Forestry 253, 261, and 264, or equivalents. PROFESSOR KORSTIAN

b. **Forest Soils.**—Prerequisite: Forestry 261 or equivalent.
[Not offered 1944-45] ASSOCIATE PROFESSOR COILE

c. **Silviculture.**—Prerequisite: Forestry 265 or equivalent. PROFESSOR KORSTIAN

d. **Forest Management.**—Prerequisite: Forestry 281 or equivalent. ASSOCIATE PROFESSOR MAUGHAN

e. **Forest Economics.**—Prerequisite: Forestry 279 or equivalent.
[Not offered 1944-45] ASSOCIATE PROFESSOR THOMSON

f. **Wood Anatomy and Properties.**—Prerequisites: Forestry 259 and 260, or equivalents. ASSOCIATE PROFESSOR HARRAR
[Probably not offered 1944-45]

g. **Forest Mensuration.**—Prerequisites: Forestry S151, 251, and 252, or equivalents. PROFESSOR SCHUMACHER

h. **Forest Entomology.**—Prerequisite: Forestry 231 or equivalent. PROFESSOR BEAL

i. **Forest Utilization.**—Prerequisites: Forestry 211 and 212, or equivalents. PROFESSOR WACKERMAN

j. Dendrology.—Prerequisite: Forestry 253 or equivalent.
[Probably not offered 1944-45] ASSOCIATE PROFESSOR HARRAR

311. Advanced Forest Utilization.—Prerequisite: Forestry 211 or equivalent. **2 s.h.** PROFESSOR WACKERMAN

323-324. Advanced Forest Pathology.—Prerequisites: plant physiology and forest pathology. Credits to be arranged. PROFESSOR WOLF

351-352. Advanced Physiology of Forest Trees.—Prerequisites: plant physiology and plant ecology or silvics. Credits to be arranged.
ASSOCIATE PROFESSOR KRAMER

354. Forest Soil Fertility.—Prerequisites: Forestry 251 and 261, and plant physiology, or equivalents; bacteriology and analytical and organic chemistry are desirable. **3 s.h.** ASSOCIATE PROFESSOR COILE
[Not offered 1944-45]

356. Economic Forces in Forestry.—Prerequisites: Forestry 279 and 282, or equivalents; courses in economic theory are desirable. **2 s.h.**
[Not offered 1944-45] ASSOCIATE PROFESSOR THOMSON

357-358. Research in Forestry.—Credits to be arranged. THE STAFF

FEES AND EXPENSES

The following tables show the general fees and charges collected from all students and the special fees collected from those taking laboratory courses. All fees for each semester are due and payable, unless otherwise specified, at the time of registration at the beginning of that semester, and no student is admitted to classes until arrangements have been made with the Treasurer of the University for the settlement of fees.

GENERAL FEES

Matriculation, per semester	$ 25.00
Tuition, per semester	100.00
Room-rent—see the detailed statement that follows.	
Athletic Fee, admitting students to all athletic contests held on the University grounds, per semester	5.00
Damage Fee, payable annually at the time of first registration	1.00
Medical Fee, per semester	5.00
Library Fee, per semester	5.00
Commencement Fee, payable once by graduate students in the last semester before a degree is conferred	3.00
Diploma Fee, payable by candidates for degrees, at the beginning of the second semester, refunded if the diploma is not awarded	5.00

SPECIAL FEES

Graduate students in the sciences are required to pay the special laboratory fees for courses as fixed by the various departments. An administrative fee is charged in connection with special research in the summer under direction of a member of the Faculty. Special laboratory and materials fees in forestry are as follows:

Forestry 224, 253, 259, 260, 264, 301a, 302a, 357a, and 358a	$2.50
Forestry 261, 351-352, 354, 301b, 301f, 302b, 302f, 357b, 357f, 358b, and 358f	$2.50 to $5.00

TRANSCRIPTS

A student desiring to transfer from Duke University to another institution is entitled to one transcript of his record. A charge of one dollar is made for each additional copy.

PAYMENTS TO FELLOWS AND SCHOLARS

Payments by the University of stipends to fellows, research assistants, and scholars are made in four installments, on November 25, January 25, March 25, and May 25.* Fellows and scholars are required to pay the regular tuition fee and such additional fees as are ordinarily required of graduate students.

* This date of payment will be adjusted to accord with the advancement in the date of Commencement.

THE SUMMER SESSION

HOLLAND HOLTON, A.B., J.D.
Director

1944

First Term: June 20 to July 31
Second Term: August 1-September 9
(Special Announcement of Courses Offered May 30-June 19)

FACULTY OF THE SUMMER SESSION

BAUM, PAULL FRANKLIN; A.B., Hamilton College; A.M., Ph.D., Harvard; University of Munich, University of Vienna and University of Lausanne, 1909-11; Sorbonne, 1913-14; ENGLISH (Duke University).

BLACKBURN, WILLIAM MAXWELL; A.B., Furman; B.A., M.A., Oxford; Ph.D., Yale; ENGLISH (Duke University).

BLOMQUIST, HUGO LEANDER; B.S., University of Chicago; Pasteur Institute, 1919; Ph.D., University of Chicago; BOTANY (Duke University).

BOOKHOUT, CAZLYN GREEN; A.B., St. Stephens College; A.M., Syracuse University; Ph.D., Duke; ZOOLOGY (Duke University).

BROWN, M. GORDON; A.B., Washington Missionary College; A.M., Emory University; Docteur de l'Université de Dijon; Doctor en Filosofía y Letras, University of Madrid; SPANISH (Georgia School of Technology).

BROWNELL, WILLIAM ARTHUR; A.B., Allegheny College; A.M., Ph.D., University of Chicago; EDUCATIONAL PSYCHOLOGY (Duke University).

CANNON, JAMES, III; A.B., Duke; A.M., Princeton; Th.B., Th.M., Princeton Theological Seminary; Edinburgh University, 1919; Garrett, 1924; D.D., Birmingham-Southern College; RELIGION (Duke University).

CARR, JOHN WINDER, JR.; A.B., Duke; A.M., Ph.D., Columbia; EDUCATION (Duke University).

CASTELLANO, HELEN KENNARD; A.B., Brown University; A.M., Middlebury College; SPANISH (Vanderbilt University).

CASTELLANO, JUAN RODRIGUEZ; B.A., Instituto Cardinal Cisneros, Madrid; Licenciado en Filosofía y Letras, Doctor en Filosofía, University of Madrid; SPANISH (Vanderbilt University).

CHILDS, BENJAMIN GUY; A.B., A.M., University of Virginia; University of Virginia, 1921-22; EDUCATION (Duke University).

CLARK, KENNETH WILLIS; A.B., Yale; B.D., Rochester; Ph.D., University of Chicago; RELIGION (Duke University).

CONNER, ELIZABETH HATCHER; B.S., Duke; A.M., University of Missouri; ZOOLOGY (Duke University).

DILLINGHAM, MARJORIE CARTER; A.B., Florida State College for Women; Universidad Nacional de México, 1939; Duke, 1941-43; SPANISH (Duke University).

GIL, FEDERICO G.; Licenciado en Derecho Diplomático, Doctor en Derecho, Universidad de la Habana; SPANISH (University of North Carolina).

GILBERT, ALLAN H.; B.A., Cornell; A.M., Yale; Ph.D., Cornell; ENGLISH (Duke University).

GOHDES, CLARENCE; A.B., Capital University; A.M., Ohio State University; A.M., Harvard; Ph.D., Columbia; ENGLISH (Duke University).

GOLDTHORPE, J. HAROLD; A.B., Hamline University; A.M., Ph.D., University of Minnesota; EDUCATION (Research Staff, American Council on Education).

GRAY, IRVING EMERY; B.S., Massachusetts State College; M.S., Ph.D., University of Wisconsin; ZOOLOGY (Duke University).

GWYNN, PRICE HENDERSON, JR.; A.B., A.M., University of North Carolina; B.D., Yale Divinity School; Ph.D., Yale; EDUCATION (Davidson College).

HART, HORNELL NORRIS; A.B., Oberlin College; A.M., University of Wisconsin; Ph.D., University of Iowa; SOCIOLOGY (Duke University).

HIGHSMITH, JOHN HENRY; A.B., A.M., Duke; Columbia, 1904-06; LL.D., Catawba College; D.Ed., Wake Forest College; PUBLIC SCHOOL ADMINISTRATION (Director of Instructional Service, North Carolina State Department of Public Instruction).

HILLMAN, JAMES ELGAN; B.Ped., Berea College; B.S., A.M., Ph.D., George Peabody College; EDUCATION (Director of Professional Service, North Carolina State Department of Public Instruction).

HUBBELL, JAY BROADUS; A.B., University of Richmond; A.M., Harvard; Ph.D., Columbia; ENGLISH (Duke University).

JOHNSON, MYCHYLE W.; A.B., Ph.D., University of Indiana; ZOOLOGY (Duke University).

KREPS, CLIFTON HOLLAND; A.B., College of William and Mary; A.M., University of North Carolina; Duke, 1943-44; ECONOMICS (Duke University).

LAZO, RAIMUNDO; B. Letters and Sciences, Instituto de Segunda Enseñanza; D.C.L., Ph.D., Universidad de la Habana; SPANISH (Universidad de la Habana).

LEMERT, BEN FRANKLIN; B.Sc. in Bus. Adm.; A.M., Ohio State University; Ph.D., Columbia; ECONOMICS (Duke University).

LUNDEBERG, OLAV K.; A.B., St. Olaf College; A.M., Ph.D., University of Minnesota; Université de Montpellier, 1918; Centro de Estudios Históricos, Madrid, 1929; SPANISH (Duke University).

MYERS, HIRAM EARL; A.B., Duke; S.T.B., S.T.M., Boston University School of Theology; RELIGION (Duke University).

OUTLER, ALBERT COOK; A.B., Wofford College; B.D., Emory University; Ph.D., Yale; RELIGION (Duke University).

PATTON, LEWIS; A.B., Furman University; Ph.D., Yale; ENGLISH (Duke University).

PEARSE, ARTHUR SPERRY; B.S., A.M., LL.D., University of Nebraska; Ph.D., Harvard; ZOOLOGY (Duke University).

PETRY, RAY C.; A.B., Manchester College; A.M., Ph.D., University of Chicago; RELIGION (Duke University).

POTEAT, MARY; A.B., Woman's College of the University of North Carolina; A.M., Columbia; Ph.D., Duke; ENGLISH (Duke University).

PROCTOR, ARTHUR MARCUS; A.B., Duke; A.M., Ph.D., Columbia; EDUCATION (Duke University).

RANKIN, ROBERT STANLEY; A.B., Tusculum College; A.M., Ph.D., Princeton; POLITICAL SCIENCE (Duke University).

RANKIN, WILLIAM WALTER; B.E., North Carolina State College of Agriculture and Engineering; A.M., University of North Carolina; Harvard, 1914-15; Columbia, 1919-21; MATHEMATICS (Duke University).

RICHARDS, CLAUD HENRY; A.B., Texas Christian University; A.M., Duke; Duke, 1942-44; POLITICAL SCIENCE (Duke University).

SCATES, DOUGLAS EDGAR; A.B., Whitworth College; Ph.D., University of Chicago; EDUCATION (Duke University).

SMITH, ROBERT SIDNEY; A.B., A.M., Amherst College; Ph.D., Duke; ECONOMICS (Duke University).

SPENGLER, JOSEPH JOHN; A.B., A.M., Ph.D., Ohio State University; ECONOMICS (Duke University).

SYDNOR, CHARLES SACKETT; A.B., Hampden-Sydney College; Ph.D., Johns Hopkins; HISTORY (Duke University).

THOMPSON, EDGAR TRISTRAM; A.B., University of South Carolina; A.M., University of Missouri; Ph.D., University of Chicago; SOCIOLOGY (Duke University).

VAN ALSTYNE, DOROTHY; A.B., Vassar; A.M., Ph.D., Columbia; EDUCATION (Duke University).

VOLLMER, CLEMENT; A.B., Heidelberg College; A.M., Ph.D., University of Pennsylvania; GERMAN (Duke University).

WALLIN, JOHN EDWARD WALLACE; A.B., Augustana College; A.M., Ph.D., Yale; EDUCATIONAL PSYCHOLOGY (Director of Special Education and Mental Hygiene, Delaware State Department of Public Instruction).

WEEKS, MARGARET SIGMON; B.S., A.M., Woman's College of the University of North Carolina; HYGIENE AND PHYSICAL EDUCATION (Duke University).

WEST, ALFRED THURBER; B.S., Alabama Polytechnic Institute; A.M., University of Alabama; Teacher's Certificate from American Academy of Dramatic Art; ENGLISH (Duke University).

WOODY, ROBERT HILLIARD; Ph.B., Emory University; A.M., Ph.D., Duke; HISTORY (Duke University).

ZENER, KARL EDWARD; Ph.B., University of Chicago; A.M., Ph.D., Harvard; National Research Fellow in Psychology, University of Berlin, 1926-27; PSYCHOLOGY (Duke University).

DUKE UNIVERSITY SUMMER SESSION

In 1943 there was a total registration of 1,703 in the Duke University Summer Session. Of these registrations, 853 students were enrolled in the first term of the Summer Session, and 307 the second term; 525 were enrolled in the Medical School and School of Nursing; and 18 were enrolled in the Law School. There were 272 graduate students the first term and 157 the second, admitted on the basis of Bachelor's degrees from 143 different colleges and universities. The total enrollment for the summer was drawn from thirty-four states, as well as the District of Columbia, Hawaii, Brazil, Canal Zone, Cuba, Mexico, and Puerto Rico. The largest enrollments were from North Carolina, Pennsylvania, Virginia, West Virginia, Florida, New Jersey, New York, Georgia, Ohio, South Carolina, Tennessee, Maryland, Kentucky, District of Columbia, Texas, and Mississippi in the order named. Public school teachers from twenty states and the District of Columbia were included in the total.

SCOPE AND PLAN OF WORK: CREDITS

Work is offered with the needs of the following classes of students in mind:

1. Candidates for the Master of Arts (A.M.) and Master of Education (M.Ed.) degrees, particularly teachers, supervisors, and administrators in the public schools who desire to complete degree requirements in a series of summers.

2. College undergraduates—men and women—seeking to hasten completion of Bachelor's degrees. (Special care is taken in advising students who are trying to complete degree requirements within three years by using their time in the summer. This matter has become particularly important in view of the national emergency.)

3. High-school graduates who wish to begin their work in May or June, instead of waiting until the following September.

Instead of the traditional one-hour courses for six weeks that compel the student to divide his time among three separate classes, the work of the Summer Session is divided into units of three semester hours, each class meeting for eighty-five minutes daily, five days per week for a period of six weeks. No student is permitted to obtain credit for more than two such courses, and no instructor teaches more than two. This means that instructor and student alike are limited to two preparations daily instead of three. The Summer Session also encourages students to take both their courses in one department. Undergraduates particularly are encouraged to take complete units of work within six weeks—that is, six semester hours of freshman English, or of second-year Spanish, or of

United States History, or of beginning Accounting, etc. Elementary science courses are so organized that by taking a heavy laboratory schedule, students may obtain credit for eight semester hours within seven weeks. There is no exception to the rule that the University allows no credit for six weeks beyond six semester hours.

Professional credits towards teachers' certificates are granted by the various state boards of education, each in accordance with its own carefully planned rules. Teachers should consult the rules laid down by their State Board of Education before enrolling for certification credit. Any student, however, whose work is of such quality as to deny him credit toward a degree, fails to receive "professional" credit.

College credits are offered as follows: A course meeting one hour daily for six weeks counts for two semester hours of credit, and a course meeting eighty-five minutes daily for six weeks counts for three semester hours of credit. The University will not accept credit beyond six semester hours earned in one term toward the Bachelor's degree. Graduate students are not under any circumstances permitted to enroll for more than six semester hours in a summer term of six weeks. They forfeit graduate credit by undertaking more than six semester hours of work, even though part of the work may carry undergraduate credit only.

The nature of the credit allowed for each course is indicated by the number of the course. Courses numbered 1-49 are primarily for Freshmen, or Freshmen and Sophomores; courses numbered 50-99 are ordinarily for Sophomores, or Sophomores and Juniors; courses numbered 100-199 are for Juniors and Seniors; courses numbered from 200-299 are for Seniors and graduates; and courses numbered from 300 up are for graduate students only and are of very limited enrollment. Courses numbered from 200 up are usually limited in enrollment to approximately twenty-five students, and during the summer consist almost entirely of graduate students. Graduate seminars are limited to fifteen students or fewer.

COURSES FOR ENTERING FRESHMEN AND FOR UNDERGRADUATES DESIRING TO ACCELERATE THEIR PROGRAM

Freshmen, that is graduates of standard high schools who desire to begin their college work before the fall semester, may enter summer classes and complete within six weeks a full year's work in the subject taken. The "School of Spanish Studies" offers exceptional opportunity for such of these students as desire work in Spanish. General Zoology is also offered for beginning students, whether premedical or simply students desiring to complete their year of required science for the Bachelor of Arts degree. Since in connection with the Navy College program the University begins a regular semester July 1, men desiring to enter college should write Mr. Charles E. Jordan, Secretary of the University, as to the regular college program instead of trying to enroll in the Summer Session.

Undergraduate students of the Woman's College and of Trinity College, Duke University, not in the armed services, as well as undergraduates of other colleges desiring summer school courses, will find work both first and second terms of the Summer Session, entirely apart from the Navy College program of the University. This is especially important to those students who lack only six or twelve semester hours of completing their degree work. In order to get the courses they prefer, such students should apply promptly.

ADMISSION

Applicants for admission to the Summer Session must meet the same requirements as if they applied in any other part of the University year. Undergraduate men desiring to enter Duke should have transcripts of their courses sent to H. J. Herring, Dean of Trinity College, and undergraduate women should have transcripts sent to Mrs. Elizabeth A. Persons, Secretary of Admissions to the Woman's College, at least two weeks before the opening of the term for which they wish to enroll, if they wish to be sure of classification before registration day. Until definite acceptance and classification by the Dean's Office they are not regularly enrolled students. Undergraduate students of other colleges should write the Director of Summer Session for a special blank to be signed by the dean of their college certifying approval of the course for which they apply.

If a student wishes to enroll for graduate courses, he should request the proper official at each of the universities or colleges which he has attended to send directly to the Dean of the Graduate School, Duke University, official transcripts of his undergraduate record and of any graduate credits which he may have. A student who has attended more than one college should note that certification by one institution of work completed at another institution cannot be accepted. In no case will a transcript presented by the candidate himself be accepted as a basis for admission, nor will a transcript mailed by an institution be returned to the student. The graduate student should also fill out Graduate School application blanks, which may be obtained from the Graduate School of Arts and Sciences. Transcripts and applications must be furnished the Dean of the Graduate School two weeks before the beginning of the term for which the student wishes to enroll if he is to receive classification before registration day. Students whose credentials are not filed in time to be evaluated before registration day may be admitted provisionally to classes for which they indicate preparation, with the understanding that no credit will be allowed until admission requirements have been met. All such provisional registrations should be cleared within ten days of entrance.

The Summer Session reserves the right to reject any application or cancel any registration without assignment of reason.

FLEXIBILITY OF CALENDAR

It will be observed that the Summer Session of the University offers the students considerable flexibility as to the time of registration and the length of residence obtainable. For example, although most first-term classes will begin Wednesday, June 21, it is possible for students who register in advance to enter classes as late as Monday, June 26, since each student is allowed four permissible absences. A student, however, cannot obtain full credit for the term's work with more than four absences. Furthermore, since many graduate students find it exceedingly hard to complete twelve weeks work in one summer term, students are permitted to register for only eleven weeks and take advantage of early examinations closing September 2. This means that the student who can attend the first term of the Summer Session and continues for five weeks of the last term, completes a full "summer quarter," or exactly one third of the year now required for a Master's degree. Finally, students who wish to complete nine weeks of work instead of six or twelve may in some cases be able to do so by planning their work for the first term so as to find a related course offered the first three weeks of the second term, or by entering a course July 10 that is completed within the last three weeks of the first term and closely related to some course continuing through the second term. There are in 1944 few courses offered for three weeks that permit this arrangement, but it is possible in most departments to enter a research seminar for as much as three weeks additional work.

CERTAIN CLASSES BEGINNING BEFORE REGISTRATION DATE

Since the 1943-44 session of the University closes May 27, there is a demand on the part of Duke undergraduate students for certain classes to be given to begin Tuesday, May 30. These are indicated in the listing of courses. Although offered for the convenience of Duke undergraduates, they are open for enrollment to students from other colleges whose calendar permits them to enter early. For the convenience of teachers and principals in public schools that close early a few graduate courses in Education are also offered to begin May 30.

EXAMINATIONS

The last two days of each term of six weeks are devoted to examinations. The University has no provision for giving examinations *in absentia,* but students absent from examination for valid reason are permitted a liberal extension of time in which to return to the University for completion of credit.

The early opening of schools in which many Summer Session students happen to teach, sometimes necessitates the return home of students before the end of the second term. The provision made for such students is as follows: Any student whose record is superior in a given course may with the consent of his instructor and the approval of the Director

of the Summer Session obtain a special examination not earlier than the fifth day before the regularly scheduled examination. If he takes such examination, the total credit in each course is reduced by one sixth; in other words, the student is interpreted as having completed five weeks of work, and his maximum allowable credit, therefore, is five semester hours.

GRADUATE DEGREES

Detailed information regarding the requirements for graduate degrees may be obtained from the *Bulletin of the Summer Session.*

THESIS WRITING IN SUMMER SESSION

Since Duke University grants no Master of Arts degree except upon completion of a satisfactory thesis, every candidate for that degree who expects to complete his work in the Summer Session should as soon as possible after completing his first term of residence choose a field in which he desires to write a thesis and confer with some instructor offering graduate courses in that field. The following points should be kept clearly in mind when arrangements are made for thesis supervision:

1. The thesis subject, which must be approved by the instructor who undertakes supervision and by the Director of Graduate Studies of the student's major department, is filed in the Graduate School Office on the blank regularly provided for that purpose. If the instructor believes that a topic proposed by a student is unsuitable, or that the student is not prepared to develop it, or that the instructor is not prepared to supervise it, his decision is final.

2. A student may enroll for six semester hours of residence credit towards a thesis or for less, in one term of six weeks. If he enrolls for only three semester hours he may enroll also for a course of three semester hours, but he cannot enroll for a total of more than six semester hours of credit, including residence toward his thesis. Completion of six semester hours of residence toward his thesis does not guarantee the satisfactory completion of the thesis, which must be acceptable to the instructor supervising it and to a committee representing the Council on Graduate Instruction. Students who do not complete their theses the first term they register for supervision have the privilege of registering a second term upon payment of regular dues, but are not required to do so. Since the numbers permitted to enroll in thesis seminars are strictly limited, such students are not permitted to register for a third term of supervision.

3. A student may either enroll in a specifically designated "thesis" course or, if his preparation meets the approval of the instructor in charge, attach himself to some regularly offered course in his field of study and report periodically to the instructor offering the course.

4. A student enrolling for thesis residence credit in regular course pays the same fees as other students during the summer of residence. At the time of graduation he pays the same diploma and commencement fees as other students and a thesis supervision fee of $25.*

5. Students enrolling for thesis supervision during the Summer Session are expected to complete their theses largely during the summer of enrollment or some subsequent summer term. The instructor with whom they enroll is not under obligation to give active supervision during the academic year, although instructors are willing to give a reasonable amount of attention to theses prac-

* Students completing the M.Ed. degree by examination pay an examination fee of $25, in lieu of the thesis supervision fee.

tically completed. Similarly, instructors in Duke University who are not teaching in the Summer Session are not expected to undertake the supervision of theses written by summer school students.

6. Students enrolled for thesis supervision in the first summer term who expect to receive their thesis examination during that term should submit the bound copies of their theses to the Graduate School Office at least four days before the end of the term. They may then be distributed by the examining committee. Failure to complete the thesis by that time will generally require deferment of the examination until the following term. Those who work on their theses during the second summer term must complete their theses and submit the bound copies to the Graduate Office at least four days before the conclusion of the term if they wish to receive their diplomas in September. Students who fail to complete their theses by the conclusion of the second term must plan to take the final examination either in the following summer or in the following academic year. It is the policy of the University not to give examinations to candidates for the advanced degrees during the time between the Summer Session and the academic year.

7. Students of the academic year who do not complete theses begun prior to the Summer Session are not accepted for Summer Session enrollment unless their subjects are in the field of some thesis seminar or other course offered by an instructor who recommends that such students be assigned to his supervision during the summer. Instructors who are employed for full time by the Summer Session are specifically requested not to carry over into the summer thesis students whose subjects are not properly a part of work such instructors are offering in the Summer Session.

FEES

Teachers in active full-time service in schools and colleges are exempt from tuition fees for as many as four terms of six weeks in a period of six years. After their fourth term they pay regular tuition charges. All other students are charged a tuition fee of $8.00 for each college credit hour, or $4.00 for each semester hour, maximum tuition being $24.00 for six weeks, or $30.00 for courses running seven weeks. All students, teachers included, pay a registration fee of $20.00 per term. Students in the sciences pay the laboratory fees required in regular term, and students completing degrees pay the regular commencement charges at the time of receiving their degrees, besides the thesis supervision of M.Ed. examination fee of $25.00 required of persons completing Master's degrees.

Major expenses are estimated as follows for each term:

Registration	$20.00
Room-rent and board	58.50
Total major expenses to teachers	$78.50
Tuition required of other students	24.00
Special fee for "School of Spanish Studies"	5.00

In the men's dormitories, as has been stated, the charge for rooms is one dollar less, making the total major expenses for occupants $77.50. To these totals should be added about $7.00 for books, probably $3.00 for miscellaneous expenditures, and laboratory fees for any science course the student may elect.

"SCHOOL OF SPANISH STUDIES"

Because of the increased interest in Spanish studies throughout the nation and the great expansion of Spanish and Spanish enrollments in the colleges and high schools of this region, the Summer Session will again offer an unusual grouping of courses in Spanish the first term of the Summer Session, extending from elementary work through second- and third-year Spanish to graduate work and advanced seminars. It is planned to supplement the courses with liberal opportunity for speaking the language, hearing lectures in Spanish, and conducting discussions and evening programs in the language. It is planned also to have Spanish-speaking tables in the University Union and a Spanish house in one of the East Campus dormitories. Both Castilian and Spanish-American culture and literature will be emphasized. (For details of the "School of Spanish Studies," see courses listed under "Spanish" in this announcement, or address the Director of the Summer Session for special folder.) Because of special facilities provided in "Spanish Studies," there is a special fee of five dollars charged, but all other expenses are the same as in other parts of the Summer Session.

THE SCHOOL OF LAW

The School of Law of the University, in association with the Law School of Wake Forest College, will offer a full semester of work during the summer, with a faculty of eight full-time men in addition to the staffs of the Legal Aid Clinic and the Law Library. The School will be conducted at Duke University on the basis of three semesters per year so that the normal three-year course may be completed in two calendar years and thus affords opportunity for those who are now able to engage in law study to accelerate their professional training during a period when there is an urgent demand for well-trained persons, both men and women, in private offices and Government service. Instruction in the Summer Session of the Law School will begin Monday, May 29, and end September 9.

The courses will be so arranged that all subjects will be completed in the semester in which they are offered. Complete courses are offered for beginning students as well as for advanced students transferring from other law schools. During the emergency, students with superior grades will be admitted who have completed two years of college work.

For further information, including courses and expenses, address the Dean of the School of Law, Duke University.

APPOINTMENTS BUREAU

A Teachers' Appointments Bureau is maintained in Room 113, Administration Building, West Campus, for the benefit of teachers desiring a change of position. There is no charge for this service.

INSTITUTE FOR TEACHERS OF SECONDARY MATHEMATICS
JULY 3-15

The Institute for Teachers of Secondary Mathematics will hold its annual summer session from July 3-15. There will be morning, afternoon, and evening meetings each day during the Institute.

SPECIAL NOTE TO UNDERGRADUATE STUDENTS TRYING TO ACCELERATE GRADUATION

It is the policy of the University to assist in any reasonable way students trying to accelerate their university work because of the national emergency. The Summer Session of 1944 is trying to make special provision for the following groups of students:

1. Those who lack fifteen hours or less of graduation (Provision has been made to permit a maximum of fifteen semester hours to be completed between May 30 and September 9. See concluding paragraph of this note.);
2. Those who need six or twelve semester hours in order to be able to graduate in one more semester;
3. Those who last summer planned to take at least twelve semester hours this coming summer in order to complete graduation in the fall semester.

Special attention is called to the courses that are tentatively offered to enable students to obtain three semester hours before the beginning of the regular Summer Session classes (first term) June 20.

COURSES OF INSTRUCTION

This is a condensed description of courses. For a full description, see *Bulletin of the Summer Session.*

EXPLANATIONS AND ABBREVIATIONS

Classes meet daily five times per week for six weeks unless otherwise indicated. Classes that meet for sixty-minute periods are indicated as carrying two semester hours of credit. Classes meeting eighty-five-minute periods daily count for three semester hours except where credits are stated otherwise. Courses are arranged alphabetically by departments. The course numbers are same numbers used in describing courses in the regular term, with the letter "S" preceding; for example, Chemistry S1 would correspond to Chemistry 1 of the regular term.

N.B.—Different State Departments of Education grant professional credit for various courses in accordance with their own carefully defined rules. Every student should inquire carefully at or before registration as to what professional credit is allowed for each course in his state.

BIOLOGY, BOTANY

See courses listed under "Duke Marine Laboratory," following "Zoology," in this announcement.

ECONOMICS

S51. Principles of Economics.—3 s.h. MR. KREPS

S52. Principles of Economics.—3 s.h. MR. KREPS

S109. The Economic Geography of Latin America.—3 s.h. MR. LEMERT

S120. Economic Geography of the Pacific.—3 s.h. MR. LEMERT

S217. Population, Resources, and Standards of Living.—3 s.h. MR. SPENGLER

S286. Latin-American Economics.—3 s.h. MR. SMITH

EDUCATION

PUBLIC SCHOOL ADMINISTRATION (GRADUATE COURSES)

(Master's candidates in this division elect their minor work in Political Science, Economics, or Sociology. Candidates for the Master of Education under the new plan must take fifteen semester hours of work from the courses specifically listed under this division.)

S203. Principles of School Administration.—Prerequisite: six semester hours of courses in classroom management and educational psychology. 3 s.h. MR. PROCTOR

S213. Problems of the Organization of the Elementary School.—3 s.h. MR. PROCTOR

S234. Secondary School Organization and Administration.—3 s.h.
MR. HIGHSMITH *(first term)*
MR. GOLDTHORPE *(second term)*

S323. Public School Finance.—3 s.h. MR. PROCTOR

S333X. Thesis Seminar: Research in School Administration.—3 s.h.
MR. PROCTOR

S363. City School Organization and Administration.—3 s.h.
MR. GOLDTHORPE

PUBLIC SCHOOL SUPERVISION (GRADUATE COURSES)

(Master's candidates in this division elect their minor work in Psychology or an approved combination with Educational Psychology, or in Sociology. Master of Education candidates are permitted as many as nine semester hours of work in their minor, but take the remaining twelve or fifteen, if minor is only six hours, from courses specifically described or listed under Supervision.)

S209. Statistical Methods in Education.—3 s.h. MR. SCATES

S222. The Curriculum and Materials of the Elementary Grades.—3 s.h.
MR. HILLMAN

S232. Elementary School Supervision.—3 s.h. MR. CARR

S273. Problems of High-School Supervision.—3 s.h. MR. HIGHSMITH

S287. Problems of Mentally and Educationally Retarded Children.—3 s.h.
MR. WALLIN

S304. The School as an Institution.—3 s.h. MR. GOLDTHORPE

S305. The Nature, Function, and Reorganization of the Curriculum.—3 s.h. MR. CARR

EDUCATIONAL PSYCHOLOGY (GRADUATE COURSES)

(The Master of Education degree is not offered in this division. Master of Arts candidates should choose Psychology for their minor subject. It will be observed that certain of the courses listed under Educational Psychology are also listed under Supervision, Secondary Education, or Elementary Education.)

S209. Statistical Methods in Education.—3 s.h. MR. SCATES

S216. Psychological Principles of Secondary Education.—3 s.h.
MR. CHILDS

S218. Educational Implications of Genetic Psychology.—Prerequisite: six semester hours of psychology or educational psychology. 3 s.h.
MR. BROWNELL

S237. Investigations in Reading.—3 s.h. MISS VAN ALSTYNE

S238. Remedial Reading: Problems and Techniques in Grades III to VI.—3 s.h. MISS VAN ALSTYNE

S247. Investigations in Arithmetic.—3 s.h. MR. BROWNELL

S287. Problems of Mentally and Educationally Retarded Children.—3 s.h. MR. WALLIN

S300. Introduction to Educational Research.—3 s.h. MR. SCATES

S300X. Educational Research.—3 s.h. MR. SCATES

S317. The Psychological Principles of Education.—3 s.h. MR. BROWNELL

SECONDARY EDUCATION (GRADUATE COURSES)

(Master's candidates in this division should elect minor work in their teaching subject, or in Psychology or Sociology. Master of Education candidates are required to elect their minor work in their teaching subject, and all of their work in Education must come from courses listed in this division.)

S205. Curriculum Problems in Secondary Education.—3 s.h. MR. CHILDS

S206. Sociological Foundations of Secondary Education.—3 s.h. MR. GWYNN

S215. Educational and Vocational Guidance.—Prerequisite: twelve semester hours in the Department, including course 105 or course 206. 3 s.h. MR. GWYNN

S216. Psychological Principles of Secondary Education.—3 s.h. MR. CHILDS

S234. Secondary School Organization and Administration.—3 s.h. MR. HIGHSMITH *(first term)* MR. GOLDTHORPE *(second term)*

S273. Problems of High-School Supervision.—3 s.h. MR. HIGHSMITH

ELEMENTARY EDUCATION (GRADUATE COURSES)

(Master's candidates in this division should take their minor work of six semester hours in Psychology, Educational Psychology, or an approved combination of the two, or in Child Welfare and Development—wholly in Sociology, or partly Sociology and Psychology, or Educational Psychology, if a satisfactory combination can be worked out. Master of Education candidates in this division must take fifteen semester hours of work described or listed under Elementary Education.)

S213. Problems of the Organization and Administration of the Elementary School.—3 s.h. MR. PROCTOR

S218. Educational Implications of Genetic Psychology.—3 s.h. MR. BROWNELL

S222. The Curriculum and Materials of the Elementary Grades.—3 s.h. MR. HILLMAN

S232. Elementary School Supervision.—3 s.h. MR. CARR

S237. Investigations in Reading.—3 s.h. MISS VAN ALSTYNE

S238. Remedial Reading Problems and Techniques in Grades III to VI.—3 s.h. MISS VAN ALSTYNE

S247. Investigations in Arithmetic.—3 s.h. MR. BROWNELL

S268. Investigations in Geography.—3 s.h. MR. HILLMAN

S287. Problems of Mentally and Educationally Retarded Children.—3 s.h. MR. WALLIN

S304. The School as an Institution.—3 s.h. MR. GOLDTHORPE

S305. The Nature, Function, and Reorganization of the Curriculum.—3 s.h. MR. CARR

COURSES RECOMMENDED FOR DEANS OF WOMEN AND OTHER PERSONS INTERESTED IN GUIDANCE AND COUNSELING

Persons interested in preparing for positions such as dean of women, girls' adviser, director of guidance, and the like, are advised to plan a Master's degree consisting of graduate courses drawn from educational psychology and supervision, general psychology, and sociology, from such courses as the following:

Education

S206. Sociologic Foundations of Education.
S208. Mental Tests and Applications.
S215. Educational and Vocational Guidance.
S218. Educational Implications of Genetic Psychology.
S233. Pupil Accounting, or
S233A. Pupil Personnel Problems and Procedure.
S234. Secondary School Organization and Administration.
S258. Educational Measurements.
S287. Problems of Mentally and Educationally Retarded Children.
S288. Problems of Mental Hygiene and Education.
S289. Character and Personality Testing.
S305. The Nature, Function, and Reorganization of the Curriculum.
S317. Advanced Educational Psychology.

Psychology

S204. Psychology of Motivation.
S206. Social Psychology.

Sociology

S205. Social Pathology.
S212. Child Welfare.
S216. Urban Sociology.
S220. Rural Sociology.
S236. Social Ethics.

ENGLISH

Master's candidates in English are required to complete at least three semester hours in Chaucer or certain other designated courses. Master's candidates who have completed as many as twelve semester hours of graduate work should take also the bibliography course, S301, at their earliest opportunity.

S55. Representative English Writers.—3 s.h. MR. BLACKBURN

S56. Representative English Writers.—3 s.h. MR. BLACKBURN

S64. English Poetry of the Eighteenth and Nineteenth Centuries.—3 s.h. MISS POTEAT

S120. History of the Theater (Modern).—3 s.h. MR. WEST

S125. English Literature of the Romantic Period.—3 s.h. MR. PATTON

S139. The Speaking Voice.—3 s.h. MR. WEST

S167. English Prose, 1790-1815.—3 s.h. MR. PATTON

S203. Chaucer.—3 s.h. MR. BAUM

S217. Spenser: "The Faerie Queene."—3 s.h. MR. GILBERT

S218. Milton: "Paradise Lost," "Paradise Regained," and "Samson Agonistes."—3 s.h. MR. GILBERT

S230. American Literature, 1800-1870: Middle Atlantic and Southern.—3 s.h. MR. HUBBELL

S234. American Literature since 1870: Part II.—3 s.h. MR. GOHDES

S308. Seminar in American Literature since 1870.—3 to 6 s.h. MR. GOHDES

NOTE: THESIS SUPERVISION

In addition to S308, to which thesis students in American Literature may attach themselves, there will probably be offered thesis supervision in English Literature by Dr. Gilbert (Sixteenth and Seventeenth Centuries) and Dr. Baum (Victorian Period). Students interested should write for further information.

GEOGRAPHY

See courses S109 and S120 under Economics.

GERMAN

S3. Intermediate German.—3 s.h. MR. VOLLMER

S4. Intermediate German.—3 s.h. MR. VOLLMER

GOVERNMENT

See courses listed under Political Science.

HISTORY

S237. Social and Intellectual Development of the Old South.—3 s.h. MR. SYDNOR

S315. Seminar in Southern History.—3 s.h. MR. SYDNOR *(first term)* MR. WOODY *(second term)*

HYGIENE AND PHYSICAL EDUCATION

S112. Personal and School Hygiene.—3 s.h. MISS WEEKS

NOTE AS TO UNDERGRADUATE PHYSICAL EDUCATION

Undergraduate students in the Woman's College are required to have six semester hours of physical education, divided among their first three years in college. By request such of these courses as may enroll as many as twelve students before May 10 will be offered the first term of the Summer Session. Each course involves a special fee of $5.00 per student, and credit is limited to one semester hour per course. Beginning swimming, intermediate or advanced swimming, beginning tennis, and intermediate or advanced tennis are the courses most likely to be available. It is probable classes will begin May 30 and June 20, to run in each case every other day for six weeks.

MATHEMATICS

(On account of the absorption of the Department of Mathematics in the war effort, elementary mathematics and the sequence of graduate courses normally offered cannot be offered for the summer of 1944. It is fully intended, however, to restore normal offerings in this department—as well as in Chemistry, Physics, and other sciences—as soon as conditions permit.)

POLITICAL SCIENCE

S61. American Government and Politics.—3 s.h. MR. RICHARDS

S62. American Government and Politics.—3 s.h. MR. RANKIN

PSYCHOLOGY

S101. Introduction to Psychology: General Principles of Mental Activity and Growth.—3 s.h. MR. ZENER

RELIGION

S114. The Life and Teachings of Jesus.—3 s.h. MR. MYERS

S181. The Nature and Early Development of Religion.—3 s.h. MR. CANNON

S319. The Life and Letters of Paul.—3 s.h. MR. CLARK

S320. Apocalyptic Literature.—3 s.h. MR. CLARK

S323. The Christian Conception of the Church.—3 s.h. MR. OUTLER

S324. The Content of Christian Doctrine.—3 s.h. MR. OUTLER

S333. Mysticism and Devotion in Christian History.—3 s.h. MR. PETRY

S334. Church Reformers and Christian Unity.—3 s.h. MR. PETRY

SOCIOLOGY

Attention is called to the fact that Sociology S101 is a prerequisite to all other courses in the Department.

S101. General Sociology.—3 s.h. MR. THOMPSON

S220. Rural Sociology.—3 s.h. MR. THOMPSON

S236. Social Ethics.—3 s.h. MR. HART

SPANISH

S1. Introductory Spanish.—3 s.h. MRS. DILLINGHAM

S2. Introductory Spanish.—3 s.h. MRS. DILLINGHAM

S3. Intermediate Spanish.—3 s.h. MRS. CASTELLANO

S4. Intermediate Spanish.—3 s.h. MR. GIL

S65. Introduction to Modern Spanish Literature.—3 s.h. MR. CASTELLANO

S68. Introduction to Spanish-American Literature.—3 s.h. MR. BROWN

S175. War Spanish.—Prerequisite, if taken for credit: three years of college Spanish. 3 s.h. MR. BROWN

S254. Materials and Methods.—Prerequisites: Spanish 65-66 or equivalent. 3 s.h. MR. CASTELLANO

S276. Conferencias sobre literatura hispanoamericana.—3 s.h. MR. LAZO

S370. Thesis Seminar. MR. LUNDEBERG

S376. La novela española en la edad de oro.—3 s.h. MR. LAZO

NOTE: SPANISH "WORKSHOP"

In connection with the School of Spanish Studies, there will be conducted from June 26-July 22 a "South Atlantic Inter-American Teacher's Workshop" sponsored jointly by the Summer Session and the Office of The Coordinator of Inter-American Affairs, Department of State, Washington, D. C. Dr. Gil will serve as the Executive Secretary of the "Workshop," which will include four weeks of intensive work with native and American specialists on topics and problems of interest to teachers of Spanish and Spanish-American History.

Interesting lecturers for this intensive work include:
Professor Joaquín Nin-Culmel, Williams College.
Dr. Sturgis E. Leavitt, University of North Carolina;
Mrs. Rosario Novoa de Lazo, Universidad de la Habana.

For further information address, The Director of the Summer Session, Duke University.

ZOOLOGY

For admission to candidacy for a Master's degree in Zoology, students should have completed an undergraduate major in Zoology (courses in General Science and Botany are not counted as a part of a Zoology major). This normally amounts to about twenty-four semester hours, which should be distributed among the various fields of Zoology, and must include Vertebrate Zoology or Comparative Anatomy, Physiology, and Embryology, passed with creditable grades. A candidate should also have completed at least one year of Chemistry. Work for the degree will require eighteen hours in advanced courses in Zoology, and six hours in another department for a minor, in addition to a thesis. Before registration for a degree, students should confer with Dr. George T. Hargitt, Director of Graduate Studies for the Department. Students not candidates for a degree may take courses offered, if they have necessary prerequisites; but may not count them toward a degree until an undergraduate major has been completed.

S1. General Zoology.—4 s.h.
MR. GRAY, MR. BOOKHOUT, AND MRS. CONNER

S2. Animal Biology.—4 s.h.
MR. GRAY, MR. BOOKHOUT, AND MRS. CONNER

S206. Marine Zoology.—6 s.h. MR. PEARSE

S219. Special Problems. MR. PEARSE

S353. Research. MR. PEARSE

NOTE: BOTANY AT MARINE LABORATORY

In addition to the work in Zoology offered at the Marine Laboratory, problem work (Botany S225) and research in Botany (S359) will be offered at Beaufort in the period between May 30 and June 27. For information, write Dr. H. L. Blomquist, Duke University. Application should be made before May 15.

DUKE UNIVERSITY

DEGREES AND HONORS CONFERRED
(1944)

ROLL OF STUDENTS
(1943-1944)

Trinity College and The College of Engineering

The Woman's College

The Graduate School of Arts and Sciences

The Divinity School

The School of Law

The School of Medicine

The School of Nursing

The School of Forestry

DEGREES AND HONORS CONFERRED
(1944)

A.B. DEGREE

Adams, Marybelle
Alden, Jeannette Lorraine
Anderson, Roy Martin
Bankhardt, Mary Catherine
Barnwell, Ruth Marshall
Barry, Ann Lenore
Beattie, Catherine Taylor
Bendall, Jane Weaver
Bennett, Jean Arline
Bentley, Nancy Joyce
Blomberg, Mildred Jean
Bloom, Dolores M.
Broadhurst, Nancy Lee
Brooks, Helen
Brown, Eva Jane
Brown, Mary Anne
Buford, Ada Jayne
Campbell, Constance Gertrude
Cline, Sara Evelyn Frances
Coggin, Mary Elizabeth
Combs, William Price
Connolly, Robert Allyn
Cooke, Barbara Rice
Crone, Elsie Mae
Cross, Alice Eloise
Davenport, Sybil Harris
Davis, Annette Koym
Dillon, Catherine Lunsford
Dubs, Anne Louise
Dykes, Beverly Primrose
Etzel, Vivien
Fisher, Margaret Ethel
Fouch, Ann
Fountain, Annie Ruth
Freels, Mary Nelson
Frizzelle, Jennie Brown
Gardner, Arthur Parcel, Jr.
Gilliam, Kathryn Margaret
Goode, Georgellen
Gordon, Mary Lindsay
Grant, Joy
Gwaltney, Mary Carolyn
Hance, Audrey Beryl
Hedrick, Julia Sneed
Helmich, Anne Shirley
Holcombe, Elizabeth Louise
Huemer, Frances Evelyn
Isley, Judith Armistead
Jeschke, Barbara Ann
Johnson, Carolyn
Johnston, Jane Ellen
Johnstone, Robert Dale
Jolly, Ruth Aileen
Jones, Caroline Moore
King, Lora Eileen
Lambert, Sarah Garner
Lance, Sarah A.
Lane, Ella Mae
LaVine, Jean Alice
Lewis, Elizabeth Fielding
Lewis, Jane Jacquelyn
Long, Margaret Elizabeth
Lucke, Marjorie Esther
Lukens, Margaret Tyson
McDermott, Anna Jeanette
McGriff, Mary Emily
McKelvie, Ruth Campbell
McLendon, Ida Gunn
Maidenbaum, Lilly Ilse
Matthews, Katherine Elizabeth
Mattox, Doyne
Medlicott, Elizabeth
Mellin, Anne
Minner, Eunice Fay
Murray, Mary Novella
Neel, Mary Louise
Nicholson, Laura Crossan
Norman, Kathryn Wheeler
Norris, Mary Louise
Nothstein, Elizabeth Prizer
Oakes, Frances Crowe
Overstreet, Mary Belle
Parker, Kathryn White
Pate, Marie Fiquet
Pendleton, Constance Barton
Perrin, Susanne Wilby
Porter, Winston Allen
Price, Carolyn Louise
Price, Jeanne
Rabel, Annale D.
Ranger, Mary
Rauschenberg, Georgia Andrews
Reed, Marian Leona
Rees, Mildred Nell
Salley, Antoinette Norwood
Samovitz, Zelda M.
Seawell, Betty Jane
Smith, Ella Mae
Smith, Patricia May
Smith, Sylvia Stewart
Snyder, Beverly Bennett
Spangler, Nancy Catherine
Spencer, Shirley Mary
Stribling, Elizabeth Rodway
Taylor, Ruby Lee
Thacker, Bernice Harvill

Thackston, Frances Venable
Thomas, Dorothy
Thresher, Joyce
Trudal, Evelyn Virginia
Warren, Margaret Elizabeth
Warren, Mary Alice
Watkins, Dorothy Jeanne
Wellnitz, Dorothy I.
Whitney, Eleanor Coburn
Whitson, Edith Lorraine
Williams, Mary Burchett
Zabriskie, George
Zinner, Dora Kathrine

B.S. DEGREE

Stark, Marjorie Leigh

In Nursing

Baldwin, Olive Douglas
Barnes, Mary Frances
Bennett, Anne Elizabeth
Blythe, Charlotte L.
Cobb, Mary Bernice
Crawley, Hattie Mildred
Daffin, Margaret Louise
Doud, Jean Clarkson
Ezzell, Mary Eliza
Farquhar, Mary
Fleming, Jessamine Roberts
Green, Patricia Wentworth
Gunter, Edith Georgiana
Harp, Dorothy Louise
Harris, Aline McCranie
Hinton, Anna Lee
Horton, Virginia Allan
Kincaid, Mary Guinn
King, Virginia Belle
Lambeth, Evelyn Alice
McMullen, Fay
Pimsner, Leontine I.
Ramsey, Ruth Wearn
Richardson, Charlotte Ruth
Slocumb, Ruth Winslow
Smith, Mary Alice
Taylor, Rebekah Grace
White, Evelyn Imogene

In Medicine

Chambers, Robert George
Featherston, William Preston
Gobbell, Walter Gothard, Jr.
Liles, George Welch
Rulon, David Bernard

A.M. DEGREE

Ahlstrom, Carl Ferdinand, III
Bloom, Melvin Sigmund
Candler, Frances Godfrey
Dupree, John Louis
Field, Frank Henry
Fries, Jean Nevin
Hood, Mallie Roy
Hunter, Charlotte Elizabeth
Kinsman, Margaret Eleanor
Kittila, Richard Sulo
Lewis, Ralph LaVerne
MacIntosh, Fred Henry
Morris, Clara Juanita
Pirkle, Eva Ann
Pohl, Marian Evelyn
Pressly, Eleanor Crockett
Randall, Elma Louise
Wood, Virginia Loraine

M.ED. DEGREE

Caldabaugh, Harry Rahr
Campbell, Walter Hoodenpyl
Keller, Maynard Herbert
Wiggins, Samuel Paul

MASTER OF FORESTRY DEGREE

Matte, Lorenzo

B.D. DEGREE

Albright, William Edward
Bame, Robert L.
Beard, John S.
Bell, Roy Edison
Boggs, Charles Marvin
Carlton, Arthur McCoy
Carter, James Edwin
Chaffin, James Claude
Conyers, David P.
Elliott, Mahlon Hamlett
Evans, Robert Weldon
Fleming, Murry Douglas
Hendrix, Major Clyde
Jones, George Wesley
Kennedy, Arthur C., Jr.
Knight, James Allen
McCoy, Lewistine Martin
McDonald, Thaddeus LeVerne, Jr.

McGuire, Douglas Lyons
Mackay, Donald Mason
Mitchell, Charles Maness
Musser, Benjamin F.
Pannill, Harry Burnell
Phifer, Ernest Carl
Powell, John James
Rainwater, Roland William, Jr.
Register, Kenneth Davis
Rock, William Alfred, Jr.
Stevenson, Linwood Jennings
Ware, Lee Wilson

LL.B. DEGREE

Whitmire, Lee E., Jr.

M.D. DEGREE

Albee, Fred Houdlett, Jr.
Alter, Albert Jerviss
Baeder, Robert Lester
Banks, Albert Lawrence
Bassell, Arthur Jay
Bone, Frank Cutchin
Booth, Orin Watts
Broome, Robert Alexander, Jr.
Cann, John Edward
Carll, Jesse Whilden, IV
Christian, Kenneth Grantland
Cole, Lee Marion, Jr.
Crowe, John Thomas, III
Culbreth, George Gordon
Curry, Robert Whitney
Dickey, James William, Jr.
Donegan, Charles Kendall
Eagles, William McCoy
Erickson, Elmer William
Feeney, Michael James
Gibson, Marvin McCall
Glenn, John Capers, Jr.
Glover, Nathaniel Banks
Gordon, Lawrence Elliott, Jr.
Graham, Emil Joseph
Gras, Alfred Edward
Hawfield, Harold Houston
Hazelrigg, Thomas Roy
Hiatt, Wilks Otho, Jr.
Horger, Eugene Leroy, Jr.
Ingram, James Mayhew, Jr.
Jones, Martin Evans, Jr.
Leeper, William Edward, Jr.
McCullough, Francis H., Jr.
Matthews, Hugh Archie
Mayne, Richard Hoyt
Morgan, Horace Lee
Morris, Arthur Allen, Jr.
Muller, William Henry, Jr.
Oliver, Keith Milliner
Peery, Clarence Eugene
Perdue, Maxine Roberta
Politano, Victor Anthony
Ramage, Raymond Crawford
Ramsbottom, John Garnett
Rhodes, Bernard Leonidas, Jr.
Riggs, Millard McAdoo
Robinson, Don Winfrey
Ross, Otho Bescent, Jr.
Ruskin, Richard Allan
Seibels, Robert Emmet, Jr.
Singletary, William Vance
Singleton, George Washington Freeman
Smith, Milton Crego
Steelman, Harry Francis
Thurman, George Edward
Watson, Walter Brown
White, Donald Palmer, Jr.
Wilson, Margaret
Withers, Robert Walker, IV

DIPLOMA IN NURSING

Allen, Mary Grayson
Baity, Martha Tannahill
Baldwin, Olive Douglas
Barnes, Mary Frances
Benbow, Marjorie Long
Bennett, Anne Elizabeth
Blythe, Charlotte L.
Churan, Dorothy Ann
Cobb, Mary Bernice
Crawley, Hattie Mildred
Crowder, Janice Meredith
Daffin, Margaret Louise
D'Amico, Frances L.
Doud, Jean Clarkson
Dull, Margie Alspaugh
Edwards, Margaret
Ezzell, Mary Eliza
Farrior, Ethel Mallard
Fleming, Jessamine Roberts
Green, Patricia Wentworth
Gunter, Edith Georgiana
Halter, Gladys Mae
Harp, Dorothy Louise
Hildreth, Lucille Elizabeth
Hinton, Anna Lee
Horton, Virginia Allan
House, Martha Elizabeth
Kincaid, Mary Guinn
King, Virginia Belle
Lambeth, Evelyn Alice
Lee, Catherine Light
Lucas, Mary Josephine

McCoy, Hazel Mae
McKenzie, Margaret Alma
McMullen, Fay
May, Barbara Frances
O'Briant, Mary Frances
Osborne, Lucy Scott
Pimsner, Leontine I.
Ramsey, Ruth Wearn
Richardson, Charlotte Ruth
Roane, Violette Cary
Robinson, Alice Merritt
Sawyer, Margaret Kate
Shearin, Mary Selina
Slocumb, Ruth Winslow
Smith, Betty Irene
Smith, Edith Lucille
Smith, Mary Alice
Taylor, Rebekah Grace
Tilley, Sophy Malone
Voss, Jewel
White, Evelyn Imogene

PH.D. DEGREE

Baumgarten, Erwin, B.S., California Institute of Technology; A.M., University of California at Los Angeles.

Dissertation: *Certain Aspects of the Claisen, Aldol and Related Reactions.*

Eddy, George Norman, Th.B., Gordon College; A.M., University of New Hampshire; M.Ed., Springfield College.

Dissertation: *The Human Face: A Study in Culture and Social Interaction.*

Erickson, John Otto, B.S., University of Minnesota.

Dissertation: *Physico-Chemical and Immunological Studies on Protein Denaturation.*

Freiser, Henry, B.S., College of the City of New York; A.M., Duke University.

Dissertation: *Electric Moments and Dielectric Polarization Studies of Certain Halogenated Aromatic Organic Compounds.*

Herndon, Nettie Southworth, A.B., A.M., West Virginia University.

Dissertation: *James Iredell.*

Johnson, Keith Whitaker, A.B., University of Kansas; A.M., Duke University.

Dissertation: *Racial Division of Labor and the American Negro. A Statistical Study of the Occupational Distribution of the Four Major Race and Nativity Groups in the United States, with Particular Discussion of the Negro.*

Magalhaes, Hulda, B.S., New Jersey College for Women; A.M., Mount Holyoke College.

Dissertation: *An Ecological Study of Snails of the Genus Busycon at Beaufort, North Carolina.*

Martin, Willard Edgar, Jr., A.B., Boston University; A.M., Harvard University.

Dissertation: *The Life and Works of Theodore Winthrop.*

Patrick, Clarence Hodges, A.B., Wake Forest College; B.D., Andover Newton Theological School.

Dissertation: *The Use of Alcoholic Beverages: A Cultural Study.*

Ramsay, Charles McKay, A.B., Berea College; B.D., Union Theological Seminary.

Dissertation: *The Concepts of God and of Salvation in the Writings of Irenaeus of Lugdunum.*

Singer, Armand Edwards, A.B., Amherst College; A.M., Duke University.
Dissertation: *The Effect of the War of 1870 on the Development of Taine's Thought.*

Soodak, Harry, B.S., College of the City of New York; A.M., Columbia University.

Dissertation: *Effects of Heat Transfer between Gases and Solids.*

Tarrant, Paul, B.S., Howard College; M.S., Purdue University.
Dissertation: *The Production of Fluorine and the Preparation of Organic Fluoro-Compounds by Direct and Indirect Methods.*

Townsend, Freda Liverant, A.B., A.M., Duke University.
Dissertation: *Jonson and His Critics: A Study in the Classical Fallacy.*

Van Voorhis, Robert Henry, A.B., A.M., Duke University.
Dissertation: *Borrowing Our Way to Socialism: The Economic Thought of Pierre-Joseph Proudhon.*

Wallace, Lillian Parker, A.B., University of Denver; M.S., North Carolina State College.
Dissertation: *The Papacy and European Diplomacy, 1869-1878.*

HONORARY DEGREES

Doctor of Science

Charles S. Stephenson

HONORS IN GRADUATING CLASSES

Summa Cum Laude

Carr, John Weber, III
Clark, Stephen Chester, Jr.
Cox, Bessie Alston
Gardner, Arthur Parcel
Lundeberg, Philip Karl Boraas

Magna Cum Laude

Allen, Lyle McDowell, Jr.
Brogan, Edwin Bernard
Dysart, Juliana
Garrett, Robert Roth
Gerber, Gordon Wayne
Stovall, John Reed
Thackston, Frances Venable
Wallace, Stanley Lawrence

HONORS IN DEPARTMENTS AND SCHOOLS

Mathematics—Bessie Alston Cox

School of Law—Graduated "With Distinction": Lee E. Whitmire, Jr.

School of Nursing—Frances L. D'Amico

School of Medicine—Election to ALPHA OMEGA ALPHA, Honorary Medical Fraternity: Frank Cutchin Bone, Robert Alexander Broome, Jr., Robert Whitney Curry, Alfred Edward Gras, Thomas Roy Hazelrigg, Wilks Otho Hiatt, Jr., William Edward Leeper, Jr., William Henry Muller, Jr.

NAVY PROGRAM—JULY AND NOVEMBER SEMESTERS

July 1, 1943-Feb. 24, 1944

Students are listed according to rank in class.

Junior Honors

Giles, Charles O.
Blackburn, Lillian Ione
Murchison, Clinton Williams, Jr.
Moore, George Walker
Meinecke, Evans Arnold
Markham, Charles Buchanan, Jr.
Gulley, Wilbur Paul, Jr.
Irons, Robert Sidney
Gilbert, Richard Lawrence

Sophomore Honors

Brown, Walter Lyons
McCanless, Edgar Eugene
Kibler, Robert Franklin
Schweinfurth, Joseph David
Martinelli, Robert Owens
Simpson, Zachary Arnold
Weatherly, Joseph Elwood
Silver, Norman Jay
Jordan, G. Ray, Jr.
Imhoff, John Leonard
Gurganus, William Ray
West, James Arthur, Jr.
McPherson, Harry Thurman
Watts, Robert Johnson

Natterson, Joseph Morton
Scott, Walter, Jr.
Bennett, Edgar Bowling
Walker, I. C., Jr.
Atkins, Robert Myrick
Sulzer, Richard Lee

Freshman Honors

Page, Ernest Benjamin, Jr.
Hudson, Ralph Fletcher
Fonger, William Hamilton
Jacobs, Ralph William
Craft, Clifford Justin, III
Klaaren, Hobart Ernest
Gilligan, Sidney Rogers
Weatherly, Carl Holmes, Jr.

WOMAN'S COLLEGE—SEPTEMBER-MAY SEMESTERS, 1943-1944

Students are listed according to rank in class.

Freshman Honors

Peterson, Margarette F.
Neely, Beverly Joy
Schimel, Jeanne Merrill
Kern, Catharine Deane
Schmidt, Evelyn D.
Ambrose, Elizabeth Lee
Taylor, Mary Jo
Cohen, Joyce Ruth

Sophomore Honors

Pace, Emma Jean
Chelimer, Edith Avery
Mirick, Marjorie
Ritchey, Velma Jayne
Ammerman, Jane
Vail, Evelyn Gray
Jordan, Sara Alice

Junior Honors

Nash, Ralph Lee
McCall, June
Merritt, Mary Louise
Beckert, Shirley Louise
Eldredge, Geneva Edwina
Ramsey, Barbara
Morrison, Mary Ann
Mathews, Emily Marcella
Christodoulou, Marie N.
Heim, Peggy
Kansteiner, Ruth
Collins, Genevieve Cecilia
Meister, Dagmar Amy

DEGREES AWARDED SINCE COMMENCEMENT IN MAY, 1943

Degrees Awarded in September, 1943

A.B. DEGREE

Alexander, James Gladden
Alexander, Margaret Elizabeth
Allen, Frank Burt, Jr.
Allen, Lyle McDowell, Jr.
Anderson, Sidney Raymond, Jr.
Autry, Paul Geddie
Bauer, Arthur David
Bell, Inza Tomlinson
Blake, Persis Weare
Bloom, Shirley Elaine
Brenner, Terrill Marc
Broome, Harry Travis
Buchanan, George Cumming
Byrn, Chester Arthur, Jr.
Cline, Guy Ellis, Jr.
Cobb, Charles Pittman
Cooper, Frances Aileen
Crane, Henry Hitt, Jr.
Fisher, Grace Helen
Frantz, Emilie Nofer
Garmon, Helen
Gatling, William Harrell
Gerber, Gordon Wayne
Goldsmith, Mary Frances
Gordon, Phyllis Anne
Hurley, Bernard Talmage, Jr.
Jansen, Phyllis Elaine
Johnson, Edna Dale
Jones, May Strawbridge
Littman, Donald Stanley
Malcolm, Frances Harrison
Marshall, Margaret Lee
Mercer, Margaret Alice
Miller, Reba Marie
Morgan, Betty Fairfax
Moss, Emma Lou
Owen, John Elias
Schuchardt, William Arthur
Scott, Jimmie Aquilla
Shockey, Joseph Porter, Jr.
Skellenger, John Robert
Smitheal, Green William, Jr.
Sutton, Mary Alice
Thornton, Frances Lilla

Upshaw, Carolyn Elizabeth
Walenta, Paul Parks
Wallace, Stanley Lawrence
Weeks, Harry W., Jr.
Wright, Virginia
Young, Russell Lowell, Jr.
Zeliff, John Engler, Jr.

B.S. DEGREE

Erickson, Gail Lotz
McCoy, Marianne
Richardson, John Wick
Wilson, William Preston

In Electrical Engineering

Marshall, William Charles

A.M. DEGREE

Anderson, Lucian Dumas
Best, Albert Hartwell, Jr.
Bevan, William, Jr.
Black, Caroline Banks
Blanton, Mayme Betty Newbern
Coble, Joseph Fillmore
Cole, Margaret Evelyn
Cook, Viola
Cooper, Frances Harlee
Copp, Earl Pickard
Duke, Mary Catherine
Edmeston, Rhoda Christena
Garner, William Nelson
Gilbert, Alfred Rachels
Hamrick, Garnet
Hartman, Inez Rebecca
Huntley, Arthur Gene
Johnson, Emma Bain
Lorman, Justine Helen
Luborsky, Lester Bernard
Miller, William Durell
Paskins, Cloyd Woodrow
Phillips, Preson Peek, Jr.
Propst, Mary Elizabeth
Salter, Harriet May
Stull, Martha Louise
Trivette, Ruth Jane Whitman
Willits, Esther May
Yowell, Robert Burgess

M.ED. DEGREE

Ahalt, Paul Edwin
Ballagh, Robert Hamilton
Chapman, Mildred Frances
Evans, Eunice Ledbetter
Flanagan, William Leroy
Harbison, James Wesley
Hix, David Neal
Holston, Norene
Ingram, Mary Middleton
Kagy, Joseph Archer
Karr, Mary Frances
Law, James Vincent
McClure, Paul Fleming
McCown, Marietta M.
Perry, Eustace Rivers
Pittman, DeWitt Kennieth
Spangler, Dorn Odell
Taylor, Melvin Holmes
Webb, Lester Dell

LL.B. DEGREE

Esgain, Albert James
Meyerson, Gerald Leo
Parker, Jane Agnes
Sellers, Frank Edwin

DEGREES AWARDED OCTOBER 25, 1943

A.B. DEGREE

Ambrose, Samuel Sheridan, Jr.
Barton, Edwin Mouzon
Benavides, Jaime Miguel, Jr.
Brenna, Anthony
Canine, William Leland, Jr.
Carter, Wilton Snowden, Jr.
Dysart, Juliana
Fawcett, Blake
Fisher, Walter Clark
Greene, James Harrison
Grob, Warren David
Grossenheider, Joseph Warren
Hardesty, Charles Howard, Jr.
Henson, Waldo Cornell, Jr.
Herter, Charles Jacques
Hinshaw, Robert Alonzo
Hockenjos, Gottlieb Frederick
Honeycutt, Emery Highsmith
Hutchings, Philip Wiley, Jr.
Kandel, Robert Franklin
Keller, Robert Slotterback
Kriek, Louise Arizia
Lamm, LeRoy Barden
Morgenthau, John Lewis, Jr.
Pace, Sherman Homer
Plaze, Edward Peter

Secrest, Vann Vanderlyn, Jr.
Shepard, Kenneth Sihler
Speziale, John Albert
Stephens, Bart Nelson
Switzer, Lawrence Charles, Jr.
Tucker, Sterling Woodward, III
Veal, Joseph Holliday
Williams, James Edward, Jr.
Wrenn, Richard Nickles

B.S. DEGREE

Berry, Frederick Hamer

In Civil Engineering

Armour, John
Morrison, Edwin Orville

In Electrical Engineering

Beary, Franklin David
Brown, Norman McLeod
Carr, John Weber, III
Clark, Stephen Chester, Jr.
Dacewicz, Leonard Norbert
French, Charles Graves
Hatley, Marvin Thomas, Jr.
Martin, Vance Bacon
Nelson, Richard Ellwood
Stovall, John Reed, Jr.

In Mechanical Engineering

Bosca, Mario E.
Brilhart, Gladden Loats
Close, Louis B.
Groome, Bailey Troy
Gugger, Gerald Robert
Hardy, William Marion
Heath, William Walter
Hones, Edward Wheeler, Jr.
Jackson, Franklin Rowley
Johnson, Daniel Calvin
Johnson, Martin Henry
Lanham, Charles Warren, Jr.
Lindeberg, Kermit Richard
Lyon, Joseph Theodore, Jr.
Mapp, Charles Albert
Metz, Carl Louis
Morris, Robert Cullom
Reamer, Richard Daniel
Witschen, Bill Dietrich

DEGREES AWARDED JANUARY 30, 1944

A.B. DEGREE

Aeugle, Margaretta Elizabeth
Atkinson, Anna Mae
Bailey, Loui Lloyd
Berry, Martha Mae
Bryan, John Burton
Bunker, Dorothy Koontz
Conor, Dolores Marie
Cox, Bessie Alston
Cross, Enola Newbold
Edwards, John Paul
Elmore, Margaret Seiga
Frost, Harriet Norma
Fulk, Frances Houston
Golden, James Boyd
Hinely, Annette
Jones, Joseph Kempton
Joyner, Virginia Claire
Kellogg, Elizabeth Churchill
Keys, Margaret Elizabeth
Kirkmyer, Agnes Weeks
Labs, Dorothy Elinor
Magruder, Anne Marshall
Manning, Reginald Murrill
Morton, David Lindsay
Moulton, Ruth Floyd
Nichols, Zora Lois
Pelletier, Nancy Jane
Seay, Ruth Doris
Shuff, Phyllis Carolyn
Stackhouse, Dorothy Lucile
Stout, Barbara Maude
Thomas, Margaret
Woody, Mary Sievers
Wrench, Leonor Vania

LL.B. DEGREE

Monterosso, Anthony James

DEGREES AWARDED FEBRUARY 24, 1944

A.B. DEGREE

Allman, Russell Vernon, Jr.
Blalock, John Vernon
Bond, Jean Bernerd
Brandt, Murray Denis
Brogan, Edwin Bernard
Buckle, James Robert

Byrd, John William
Campbell, Alton Gailey
Campbell, Strouse
Clifford, Thomas Norman
Darden, Thomas Milton
Farley, Albert W., II
Fischer, Clifton Franklin
Fletcher, Harold Thompson, Jr.
Gantt, Robert Melvin, Jr.
Kitchens Jack Conway
Lane, William Augustus, Jr.
Lemken, Russell Kenneth
Lundeberg, Philip Karl Boraas
Moore, Samuel Leedom
Palmer, Harry Hyde
Preslar, Arthur Josephus, Jr.
Primm, Arthur Weeks
Sheridan, Robert J.
Speth, Charles Theodore
Stewart, Henry Watson
Ward, Virginia Cranston
Welton, Robert Glenn
Willis, David Steel, Jr.

B.S. DEGREE

Bunting, Helen Lindsay
Coman, James Hilary, Jr.
Garrett, Robert Roth
Zerfass, Virginia Betty

In Civil Engineering

Black, William Mock
Bratton, John, Jr.
Ehrenfeld, William C.
Greene, George Parry
Johnson, Horace Lee, Jr.
Karl, William Wainwright
Newsom, Ernest Edward
Sales, Thomas David

In Mechanical Engineering

Beer, George N.
Calhoun, Clinton Warren, Jr.
Chapman, Walter Hendley
DeWitt, William Day
Gile, Howard Lawrence
Hill, Francis Uyless, Jr.
Hogarth, Bruce Edward
Holden, Edward Allen, Jr.
Johnson, James Gaston
Johnston, William Young
Katzenstein, Jack
Kittner, Harry
Myers, Joe Thomas
Ritter, James Martin
Wilson, Lewis Holliday, Jr.

ROLL OF STUDENTS

TRINITY COLLEGE AND THE COLLEGE OF ENGINEERING

March 1, 1944-June 23, 1944

TC indicates Trinity College and EC College of Engineering. Letters denote classification: C, Civilian; N, Navy; M, Marine; CG, Coast Guard.* Number shows semester in progress.

Abney, James Wesley, Jr. TC N 1	Arlington, Va.
Abramson, Richard Arlen TC C 3	New York, N. Y.
Acherman, Walter Lane TC N 3	Washington, D. C.
Adams, Gilreath Gilderoy, Jr. TC C 6	Charlotte, N. C.
Adams, John Martin EC M 8	McKenzie, Tenn.
Adams, Mack Neel TC N 3	Duncan, Okla.
Adams, Thornton Dixon TC C 2	Carthage, N. C.
Adams, William Hester, III TC C 3	Atlantic Beach, Fla.
Aderhold, William Osborne TC N 1	East Point, Ga.
Adrian, John Hoy TC C 2	Lorain, Ohio
Aitken, Theodore Bird EC N 8	Wyndmoor, Pa.
Albrecht, Glen Tasker TC N 2	Washington, D. C.
Alexander, Henry Clifford, Jr. TC C 3	Charlotte, N. C.
Alexander, Roy L., Jr. TC N 4	Englewood, N. J.
Alexander, William Coburn, III EC N 5	Durham, N. C.
Allen, Bonva Closson, Jr. TC N 3	Raleigh, N. C.
Allen, Louis Carr, Jr. TC N 5	Burlington, N. C.
Allen, Spencer Turner TC N 5	Milton, Fla.
Allen, William Osborne TC N 3	Canton, N. C.
Allison, Robert David TC N 3	Clinton, Okla.
Alperin, Alfred Maurice EC N 7	Memphis, Tenn.
Alpert, Eugene Oliver TC C 3	Brooklyn, N. Y.
Ambrose, Kenneth Eugene TC N 3	Oblong, Ill.
Amos, Charles Aubrey TC N 1	Washington, D. C.
Ampthor, Francis Joseph Edward TC N 5	Philadelphia, Pa.
Anders, Wilson Nathaniel, Jr. TC M 4	Baton Rouge, La.
Anderson, Charles Duane TC N 1	Lakeland, Fla.
Anderson, John Powell TC C 3	Lynchburg, Va.
Anderson, Leonard Porter, Jr. TC N 3	Camden, S. C.
Anderson, Richard Albin TC N 2	Chicago, Ill.
Anderson, Richard Gordon TC N 1	Miami, Fla.
Anderson, Robert Alvin TC N 5	Proud, Utah
Anderson, William Woodrow TC N 1	Ettrick, Va.
Andrachek, George TC N 2	Monessen, Pa.
Andres, Norbert Eugene, Jr. TC N 2	Buffalo, N. Y.
Andrews, George Reid TC C 9	Mt. Gilead, N. C.
Andrews, John Charles TC C 2	Rowland, N. C.
Andrews, Richard Selby EC N 7	New Haven, Conn.
Andrews, Robert Jackson TC N 1	Greensboro, N. C.
Angier, Newton Duke TC C 4	Durham, N. C.
Anthony, Edwin Leon EC N 5	Binghamton, N. C.
Appleby, William Robert TC M 3	Dallas, Texas
Arford, James Albert TC N 3	Stone Lake, Wis.
Armstrong, Howard Gene TC N 3	Washington, D. C.
Armstrong, Thomas Christian, Jr. TC M 5	Richmond, Va.

* Coast Guard trainees transferred to Naval Reserve May 1, 1944.

Arnest, Richard Turberville, Jr. TC N 5	Oldhams, Va.
Arnold, James Schoonover TC C 6	Chicago, Ill.
Arnold, Reginald Seymour EC M 3	Wasonoco, Mass.
Arrington, Anthony Wayne TC N 1	Grundy, Va.
Arrowsmith, Dirck Walton TC N 5	Atlanta, Ga.
Artley, James Meredith EC M 5	Savannah, Ga.
Ashby, Rufus TC N 5	Durham, N. C.
Ashmore, Frank Leon TC N 3	Greenville, S. C.
Asplund, Dellmar Clarence TC N 2	Rockford, Ill.
Atkins, Albert Acree, Jr. TC N 1	Concord, Tenn.
Atkins, Robert Myrick TC N 4	Paragould, Ark.
Atkinson, Kendall Stewart, Jr. TC M 7	Roanoke, Va.
Atwell, William Howard TC C 1	Dayton, Ohio
Aycock, Thomas Crockett TC C 2	Washington, D. C.
Aycock, Thomas Malcolm, Jr. TC N 3	Durham, N. C.
Baer, Harry Robert EC N 5	Youngstown, Ohio
Bailey, Edward Anthony TC N 5	Rydal, Pa.
Bailey, Thomas Liggett TC N 7	Lake Worth, Fla.
Bailey, William Francis TC M 7	Knoxville, Tenn.
Baka, George Josef TC N 2	Lima, Ohio
Baker, David Mohn EC N 5	Lewisburg, Pa.
Baker, John Holland, Jr. EC N 3	Crystal City, Texas
Baker, Sumner Erwin TC N 1	Tampa, Fla.
Balitsaris, George Peter TC M 5	Pittsburgh, Pa.
Ball, James Herbert TC N 4	Winston-Salem, N. C.
Ballard, Charles Kale TC M 7	Mount Holly, N. C.
Barber, Henry Ford TC N 2	Middleburgh, N. Y.
Barden, Graham Arthur, Jr. TC N 7	New Bern, N. C.
Barger, Charles Thomas EC N 2	Charlotte, N. C.
Bargeron, Charles Thomas, Jr. TC M 7	Sardis, Ga.
Barnes, David Arlie TC N 3	Rochester, Minn.
Barnes, George William EC M 3	Petersham, Mass.
Barnes, Jimmy Allan TC N 3	Kings Mountain, N. C.
Barnett, William Herbert, Jr. TC N 1	Michie, Tenn.
Barnette, John Henry EC M 7	Selma, Ala.
Barone, Nathaniel L., Jr. TC C 4	Jamestown, N. Y.
Barr, Charles Lee TC N 3	Glen Ellyn, Ill.
Barra, Peter Philip TC M 3	Boston, Mass.
Barringer, Harold Ross TC N 2	Concord, N. C.
Bartlett, Carroll Williams TC N 2	Baltimore, Md.
Bartlett, William Herman EC C 5	Charlotte, N. C.
Barton, Taylor Jefferson TC M 4	San Angelo, Texas
Bates, Norman Joseph TC N 2	Risingsun, Ohio
Bauer-Farner, Mario EC C 1	Guatemala, Guatemala
Bayman, Charles Richard EC N 7	N. Charleston, S. C.
Beale, Walter Henry, Jr. EC M 7	Potecasi, N. C.
Beam, Jay Ky EC N 2	Beaufort, N. C.
Beaman, Nathaniel TC N 5	Norfolk, Va.
Beaman, Robert Prentis, Jr. TC N 5	Norfolk, Va.
Beamer, Elbert Ernest TC C 9	Mount Airy, N. C.
Beasley, James Franklin TC C 2	Vass, N. C.
Beatty, John Joseph TC N 6	Washington, D. C.
Beauchamp, John Hurst TC N 6	Cleveland, Ohio
Beaudouin, Harry Edward TC N 5	Hewlett, N. Y.
Bebell, Charles Jacob EC N 5	Toronto, Canada
Becker, Irwin William TC M 3	Burlington, Vt.
Becker, William Frederick EC N 4	Nutley, N. J.
Beddingfield, Richard Jackson TC N 5	Manhasset, N. Y.
Bedford, Robert Chester TC N 2	Chicago, Ill.

Belk, Henderson TC N 5	Charlotte, N. C.
Bell, William Seaman TC C 7	Jersey City, N. J.
Bellocchio, Emil William TC N 2	Brooklyn, N. Y.
Benedetti, Francis Anthony TC N 2	Richmond, Va.
Bennett, Edgar Bowling EC N 5	Richmond, Va.
Bennett, Edwin Lyles TC M 5	Memphis, Tenn.
Bennett, William Edward TC N 1	St. Petersburg, Fla.
Benskin, George Henry, Jr. EC M 5	Quantico, Va.
Benson, Rupert Lee, Jr. TC C 3	Wrightsville Beach, N. C.
Beres, Herbert TC C 5	Lynbrook, N. Y.
Berngard, Lawrence Jay TC N 5	Chicago, Ill.
Bertke, Robert William TC N 3	Cincinnati, Ohio
Betts, Wilmer Conrad TC N 4	Raleigh, N. C.
Bice, James Robert TC N 3	Shawnee, Okla.
Biggs, Dennis Walter, Jr. TC N 3	Lumberton, N. C.
Billings, Donald Dwight TC N 3	Enid, Okla.
Billingslea, Robert Kerr, Jr. TC M 7	Westminster, Md.
Binda, Herbert Joseph, Jr. TC M 3	Medford, Mass.
Birmingham, Walter Marvin TC N 1	Granite City, Ill.
Bishop, Lonnie, Jr. TC M 6	Arden, N. C.
Bishopric, George Andrew TC N 3	Spray, N. C.
Black, David Coley TC C 2	Durham, N. C.
Blackmon, Benjamin Boinest TC C 1	Orangeburg, S. C.
Blake, John Ronald, Jr. TC C 3	Washington, D. C.
Blake, Wilbur Johnson, Jr. TC N 3	Calhoun Falls, S. C.
Blanton, Stewart EC N 4	Charlotte, N. C.
Bliss, Francis O'Donovan, Jr. TC N 2	Dickerson, Md.
Bliss, Verne Fairbanks TC M 7	Salem, Va.
Boehling, William Anthony TC C 2	Richmond, Va.
Boggs, Lawrence Kennedy TC N 4	Birmingham, Ala.
Bommer, Clifford K. TC N 4	Ft. Meade, Fla.
Boney, Homer Mac, Jr. TC N 1	Wallace, N. C.
Boone, Thomas Hood TC C 2	Washington, D. C.
Booth, Richard Gene TC C 5	Welch, W. Va.
Borbeley, James Andrew TC M 7	New Brunswick, N. J.
Borgerding, George Edward TC M 4	Prior Lake, Minn.
Bostian, Leroy Edgar, Jr. TC C 8	China Grove, N. C.
Boston, John Armistead, Jr. TC N 5	Atlanta, Ga.
Bostrom, Everett TC N 6	St. Louis, Mo.
Bowden, George Edwin TC C 4	Norfolk, Va.
Bowes, William Thomas TC N 1	Alexandria, Va.
Bowie, Fred Alexander EC C 1	Morganton, N. C.
Bowman, Robert Calvin TC N 2	Park Ridge, Ill.
Boyd, Benjamin Franklyn TC C 5	Panama City, Panama
Boylan, John Davit TC N 3	Chicago, Ill.
Boyles, Paul Weldon TC C 5	Gibsonville, N. C.
Bozich, Anthony Michael TC N 1	Chicago, Ill.
Bracey, Earl Watkins TC N 2	La Crosse, Va.
Bradley, William Macon TC N 1	Atlanta, Ga.
Bradshaw, James Martin EC M 8	Montgomery, Ala.
Brady, Donald Ernest TC N 4	Peoria, Ill.
Brancaccio, Frank TC N 2	Chicago, Ill.
Brandon, Guilbert LePage EC C 7	Memphis, Tenn.
Brandt, Chester TC C 1	Brooklyn, N. Y.
Branfield, Earl Wayne TC N 6	Alliance, Ohio
Branscomb, Lewis McAdory TC C 4	Durham, N. C.
Brashear, Thomas Edward TC N 2	Cameron, Texas
Braswell, Charles Clarence EC C 5	Durham, N. C.
Brawner, Hugh Page, Jr. TC C 3	Washington, D. C.

Brengle, George Robert TC C 7	Washington, D. C.
Brenner, Richard J. TC M 7	Cincinnati, Ohio
Bridge, John Homer EC N 2	St. Petersburg, Fla.
Briggs, Harold Bruce TC N 1	Caden City, W. Va.
Briggs, Ranald Urton TC N 5	Dayton, Ohio
Bright, Turner Newton, Jr. EC N 6	Bardstown, Ky.
Brillhart, Robert Ross TC M 7	Napoleon, Ohio
Brinkley, William Lambreth TC C 6	Greensboro, N. C.
Broadfield, Ward Holt, Jr. EC N 5	Cartersville, Ga.
Bronson, Richard Avann TC C 2	Coral Gables, Fla.
Brooks, Allen Watkins TC N 1	Norfolk, Va.
Brooks, Charles Milliken TC C 7	Portland, Maine
Brooks, Jack Martin EC N 5	Hilton Village, Va.
Brooks, Keith TC N 3	New Castle, Pa.
Broome, Norris Colyar TC M 7	Crawford, Ga.
Broughton, Walter Thomas, Jr. TC N 5	Mount Holly, N. C.
Browder, Joseph Garrott EC N 5	Charlotte, N. C.
Brown, Allan Maurice TC N 5	Chicago, Ill.
Brown, J. Colvin TC C 3	Waynesville, N. C.
Brown, Lee Buckingham TC N 5	Norfolk, Va.
Brown, Walter Lyons TC N 5	Charlottesville, Va.
Brown, Warren C., III TC M 7	Helena, Ark.
Browne, George Field TC N 1	Newport News, Va.
Browning, James Richardson TC C 3	Whiteville, N. C.
Brungardt, Harold TC N 3	Lincoln, Neb.
Bryan, William Joe TC N 3	Rockford, Ill.
Bryans, Robert Lee, II TC C 3	Pensacola, Fla.
Bryant, William Arnold, Jr. TC N 3	Allen, Okla.
Buchanan, Fitzhugh Lee, Jr. TC M 3	Portsmouth, Va.
Buck, Donald Arthur TC N 1	Cincinnati, Ohio
Buckheit, Theodore Otto TC N 2	Ozone Park, N. Y.
Buckley, Daniel Joseph TC N 1	New York, N. Y.
Buckley, Donald Bright TC N 5	Washington, D. C.
Bullard, John Carson TC N 1	De Funiak Springs, Fla.
Burcham, Robert Poplin TC N 1	Washington, D. C.
Burg, James Donald TC N 2	Hamilton, Ohio
Burke, Thomas H. TC N 3	Rusk, Texas
Burke, Edward Walter, Jr. EC M 3	Lynn, Mass.
Burlew, Robert Wesley TC C 7	Matawan, N. J.
Burton, John Ray EC M 5	Richmond, Va.
Bush, Albert Jackson TC M 6	Jacksonville, Fla.
Butler, James Elmo TC N 2	Bluefield, W. Va.
Butler, William Powers TC N 5	Washington, D. C.
Butler, William Stanton TC N 5	Little Neck, N. Y.
Buzzard, Robert Francis TC C 2	Haddonfield, N. J.
Byers, Irving Miller TC N 4	Martinsburg, W. Va.
Cacak, Stanley John TC N 3	Thompson, Neb.
Cade, Joseph Wade TC N 6	Sheffield, Ala.
Cahn, Maurice Simon TC N 1	Blackstone, Va.
Caldwell, Harold Blaine TC M 7	Lincolnton, N. C.
Callaway, Rex Leon TC M 3	Crichton, Ala.
Calos, Gust Efstratios TC M 5	Danville, Va.
Cameron, Angus McKay TC C 3	Vass, N. C.
Cammack, Allen Berriman, Jr. TC N 2	Burlington, N. C.
Camp, Frank Lee TC N 3	Memphis, Tenn.
Campbell, Claude Waldrue TC N 5	Durham, N. C.
Campbell, Lachlan Leigh TC C 1	Charleston, W. Va.
Campbell, William Eason TC M 7	Coral Gables, Fla.
Canady, Lloyd Edward TC C 3	Raleigh, N. C.

Capie, James George TC N 1	Deer Park, N. Y.
Capps, John Albert EC M 6	Jackson, Miss.
Carguil, Robert Donald TC N 3	Brooklyn, N. Y.
Carlton, Everett Leroy TC M 7	Winston-Salem, N. C.
Carlton, Harold Gwen TC N 5	Tulsa, Okla.
Carmichael, Clifford EC N 5	Clifton, N. Y.
Carosi, Nicholas John, Jr. TC N 5	Washington, D. C.
Carpenter, Robert Eddy TC N 3	West Point, Ga.
Carpenter, Robert Murray EC N 5	Hagerstown, Md.
Carroll, Charles Fisher TC N 2	High Point, N. C.
Carroll, Kenneth Lane TC C 4	Easton, Md.
Carroll, Michael Philip TC M 2	Augusta, Ga.
Carroll, Stephen Wall TC N 5	Paterson, N. J.
Carroll, Thomas Richard TC N 2	Middletown, Ohio
Carson, Charles Adam TC C 1	Batesburg, S. C.
Carson, John Spencer TC M 5	Richmond, Va.
Carter, Derb Stancil TC N 6	Fayetteville, N. C.
Carter, Donald Dean TC N 4	Erwin, Tenn.
Carter, Edward Fennel TC N 3	Erie, Va.
Carter, George Daniel TC C 2	Carthage, N. C.
Carter, Robert Winston TC M 1	Greenwood, S. C.
Carter, Shirley Hall, Jr. TC N 1	Ellsworth, Maine
Carver, Gordon Malone TC N 7	Durham, N. C.
Castle, Edwin Robert TC M 5	Rome, N. Y.
Chambers, Chester Leslie TC N 5	Freeport, N. Y.
Chancellor, Hoyle Zellner TC N 1	Johnson City, Tenn.
Chapman, John Edward EC C 8	Charlotte, N. C.
Chapman, John William TC M 7	Logan, W. Va.
Chapman, Thomas Louis TC C 4	East Orange, N. J.
Chase, Paul Engelhart TC N 3	Pasadena, Calif.
Chilcote, Charles William TC N 2	Winnetka, Ill.
Chrisman, Myron Wayne TC N 8	Lawton, Okla.
Clair, James Paul TC N 5	Pittsburgh, Pa.
Clark, Alan Dale TC M 5	Millville, N. J.
Clark, Allen Berkley TC M 5	South Boston, Va.
Clark, Don Morse TC N 2	Hellam, Pa.
Clark, George Philemon TC N 4	Wilson, N. C.
Clark, Harry Githuns TC M 7	Wadesboro, N. C.
Clark, Hubert Karl EC N 5	Durham, N. C.
Clark, Robert Arthur TC C 8	Elizabethton, Tenn.
Clark, Sherman Dockray TC N Special	New York, N. Y.
Clark, Walter Sherman TC C 1	Miami, Fla.
Clarke, George Gunther TC M 5	Memphis, Tenn.
Clarke, Len Gordon TC N 5	Draper, N. C.
Classen, Robert Edward TC N 1	St. Paul, Minn.
Clear, James Robert EC M 3	Medford, Mass.
Clement, Lee TC N 1	East Spencer, N. C.
Clements, Francis L., Jr. TC M 6	Macon, Ga.
Clements, Lawrence Withers, Jr. TC M 3	Roanoke Rapids, N. C.
Clifton, Berwyn TC N 1	Lakeland, Fla.
Cobb, George Everett TC N 5	Freehold, N. J.
Cocke, John EC N 4	Charlotte, N. C.
Coggins, Wilmer J. TC C 5	Madison, Fla.
Colarusso, Joseph Rutley TC N 5	Long Island, N. Y.
Colby, John Arthur TC N 3	Springfield, Mass.
Cole, Harry Lee TC N 1	Asheville, N. C.
Cole, Richard Shipley TC N 5	Norfolk, Va.
Coleman, Joe Murray TC N 3	Madill, Okla.
Collins, Warren James TC C 5	Camas, Wash.

Compton, Robert Gary TC N 5	Bartow, Fla.
Condon, Vernon William TC N 1	Charleston, S. C.
Conner, Judson Jerome TC M 3	Hartford, Conn.
Connor, Bruce Kenneth EC M 8	Washington, D. C.
Connor, James Manker TC N 4	Columbia, S. C.
Conrow, Abraham Engle TC N 4	Rancocas, N. Y.
Conroy, Joseph Alphonse TC N 5	Queens, N. Y.
Cook, John William TC M 4	Afton, Va.
Cook, Robert Edward TC N 4	Chicago, Ill.
Cooke, Peter Royal TC N 1	Leonardo, N. J.
Coon, Elvin Ralph, Jr. EC M 3	Belmont, N. Y.
Cooper, George James EC N 6	Munster, Ind.
Cope, Billy Sherrill EC N 4	Sylva, N. C.
Copeland, Leon Howard TC M 3	El Dorado, Kan.
Copley, Alden Gibson EC N 6	New Rochelle, N. Y.
Corwin, Richard Crane EC C 5	Toledo, Ohio
Cost, William McClellan TC C 3	Newport, R. I.
Cottam, Robert Thomas TC N 3	High Point, N. C.
Coulter, Fred Winferd TC N 2	Orlando, Fla.
Cowin, Robert Edwin TC N 5	Franklin, Pa.
Cox, Carlyle Lanneau TC M 7	Robersonville, N. C.
Cox, James Herbert EC N 5	Bridgeton, N. J.
Cox, James Howell TC N 4	Mt. Airy, N. C.
Cox, Thomas Lee TC N 3	Oklahoma City, Okla.
Cox, Walter Edward TC N 1	Aliceville, Ala.
Cox, William Jones TC C 3	Elizabeth City, N. C.
Crabtree, Willard Reuben TC N 3	Henagon, Ala.
Craft, Clifford Justin EC M 3	Drexel Hill, Pa.
Crane, Frank TC C 5	Detroit, Mich.
Crawford, Gerald Eugene TC N 6	Minneapolis, Minn.
Crews, Alton Cornelius TC N 3	Centerville, Ala.
Crisafulli, Frank TC N 1	Easton, Pa.
Criser, Edward Eubank TC N 1	Hot Springs, Va.
Crittenden, William Cunningham TC N 8	Birmingham, Ala.
Crivello, Alfred Anthony TC N 2	Baltimore, Md.
Crosland, Robert Elder TC N 1	Punta Gorda, Fla.
Crowder, John Nathaniel TC N 3	High Point, N. C.
Crutcher, James Carroll TC N 2	Dover, N. J.
Cudworth, James Rowland, Jr. EC N 2	Tuscaloosa, Ala.
Cummings, Jonathan Walkley TC M 3	Bennington, Vt.
Cummins, Robert Leon TC N 3	Enid, Okla.
Cunningham, Meriwether Lewis TC N 5	Winston-Salem, N. C.
Currey, Russell Wallace TC M 3	Chelsea, Mass.
Currier, Richard Dustin TC N 5	Rye Beach, N. H.
Curtis, Charles Marshall EC N 7	Climax, N. C.
Cushwa, Victor TC N 6	Williamsport, Md.
Dabney, Andrew Bailey, Jr. TC N 3	Lancaster, S. C.
Dachowski, John Walter TC N 1	Reading, Pa.
Dackis, William Charles EC C 8	Durham, N. C.
Daugherty, Walter Donald TC N 1	Falls Mills, Va.
Davidson, Theron Wesley TC N 2	Voorheesville, N. Y.
Davies, Kenneth William TC N 2	Lima, Ohio
Davis, John Kendall, Jr. TC N 6	Berlin, Md.
Davis, Karl Donald TC C 1	Charleston, W. Va.
Davis, Thomas Harmon TC N 5	Scranton, Pa.
Davis, Wayne Edward TC N 3	High Point, N. C.
Davis, William Archie EC N 6	Charlotte, N. C.
Davison, Robert Henry TC N 3	Lynbrook, N. Y.
Dean, John William TC C 2	Stovall, N. C.
Deas, Eugene Inman TC N 5	Richmond, Va.

Deaton, Donald Burette TC N 3	Mooresville, N. C.
DeButts, William Edward TC M 7	Oak Park, Ill.
DeFilippo, Joseph Martin TC C 2	Bridgeport, Conn.
Dekker, Olney TC N 1	Bedford, Ohio
de la Guardia, Jaime TC C 3	Panama City, Panama
Delle Donne, Marseilles TC M 5	Homestead, Pa.
DeMott, Robert Bert TC N 1	Eastchester, N. Y.
Denny, James Alexander TC M 3	Atlanta, Ga.
de Venoge, Harry Christopher TC N 5	Long Island, N. Y.
De Vore, Leonard Horton TC N 5	Cincinnati, Ohio
Dewees, Randle Vincent TC N 3	Memphis, Tenn.
Dibble, James Birney TC N 3	Aurora, Ill.
Dibble, Philip Gege TC N 5	Birmingham, Mich.
Diedrich, William Arnold TC N 2	Hamlin, N. Y.
Dillon, Grover Lee EC C 8	Raleigh, N. C.
Dillon, Marcus Lunsford TC C 5	Lewisburgh, W. Va.
Dillon, Marvin Buford TC M 7	Kilsyth, W. Va.
Dinkler, Leonard Ronald TC N 2	Mabscott, W. Va.
Ditmars, Charles Orestes TC M 1	Mobile, Ala.
Dixon, John Milner EC N 5	Waterbury, Conn.
Dlugos, Thomas Stephen TC M 2	Garfield Heights, Ohio
Dmytryk, John Robert EC M 3	Westfield, Mass.
Dobbs, Roy Morris EC N 3	Atlanta, Ga.
Dodson, Nathan Taylor TC M 3	Reidsville, N. C.
Doig, Calvin DeWitt TC N 5	Packanack Lake, N. J.
Doig, William Dunsmore TC C 6	Packanack Lake, N. J.
Dolson, Thomas Lee TC N 7	New Castle, Pa.
Donahue, William Francis, Jr. TC M 7	Montgomery, Ala.
Donze, Charles Ameede, Jr. TC N 4	Philadelphia, Pa.
Dorman, Bruce Hugh TC N 5	Plainfield, N. J.
Dorton, Spero Pete TC C 3	Durham, N. C.
Doty, Fred Owen TC N 7	Old Hickory, Tenn.
Dovell, Ray Harris TC N 5	New York, N. Y.
Downes, Charles Slingloff TC N 2	Baltimore, Md.
Downes, William Robert TC N 3	Chicago, Ill.
Doyle, Everett James TC N 7	Long Island, N. Y.
Doyle, Richard Lee EC C 5	Buffalo, N. Y.
Drabent, Eugene Alphonse TC N 2	Scranton, Pa.
Draney, John Joseph TC N 3	Teaneck, N. J.
Drennen, Charles William TC N 3	Birmingham, Ala.
Drew, John Swain TC N 1	Milan, Ga.
Drew, Mitchell Nebraska TC N 1	Quincy, Fla.
Drummond, Douglas Jay TC N 3	Richmond, Va.
Dudenhoeffer, Daniel George TC N 5	Brooklyn, N. Y.
Duley, Robert Kingston EC C 1	Richmond, Va.
Dunaiski, Raymond Martin TC N 2	Duluth, Minn.
Dunn, James N. TC M 7	Devereux, Ga.
Dunn, Robert Francis TC C 2	Southern Pines, N. C.
Dunne, James Thomas TC N 3	Chicago, Ill.
Durand, Frank TC N 2	Sea Girt, N. J.
Durbin, Stephen Frank TC N 3	Altoona, Pa.
Durham, Leonard TC N 3	Glen Carbon, Ill.
Dutton, William Wallace TC M 7	Baltimore, Md.
Dye, Dewey Albert, Jr. TC N 3	Bradenton, Fla.
Early, Albert Terry TC N 5	Welch, W. Va.
Earnest, George Reid TC N 1	Atlanta, Ga.
Easley, Henry Alexander, Jr. TC N 1	Rocky Mount, N. C.
Easterlin, William Frank, Jr. TC N 3	Americus, Ga.
Easterling, John Garlick TC C 4	Rocky Mount, N. C.
Eastman, Paul Reed TC N 5	Bronxville, N. Y.

Eaton, William Mellon TC N 3	New York, N. Y.
Echerd, John Charles TC N 3	Taylorsville, N. C.
Edens, John Clarence EC C 2	Rowland, N. C.
Edmondson, William Donald TC M 7	Tarboro, N. C.
Edwards, Ian Keith TC C 5	Asheville, N. C.
Edwards, John Springstead TC N 1	Savannah, Ga.
Edwards, Ralph Pearson TC N 4	Charlotte, N. C.
Eells, Edward Louis TC N 3	Port St. Joe, Fla.
Eisenberg, Lloyd TC C 1	Philadelphia, Pa.
Elam, William Nile TC N 4	Washington, D. C.
Elderkin, Walter Raymond TC N 5	Montclair, N. J.
Eldredge, Robert Breene TC M 3	Waterbury, Conn.
Elkins, Augustus Coolidge EC N 5	Durham, N. C.
Elliott, John Earle, Jr. TC N 2	Chevy Chase, Md.
Ellis, Harold John, Jr. TC C 1	Andover, Mass.
Ellis, James Thaddeus TC M 3	Siler City, N. C.
Ellison, Frank Monroe EC N 3	Madison, W. Va.
Ellison, Haskell Saul TC C 4	Charleston, S. C.
Emerman, Maxwell Louis TC N 5	Erie, Pa.
Engle, James Wallace, Jr. TC N 3	Arlington, Va.
Entrekin, Edward Earl EC N 1	Glendale, Calif.
Ervin, Charles Conger TC N 3	Lenoir, N. C.
Erwin, Eugene Kent TC M 3	Grand Junction, Colo.
Eskew, William Theo, Jr. EC N 7	Anderson, S. C.
Eubanks, Otha Albert, Jr. TC N 3	Durham, N. C.
Evans, Clinton Roger TC N 1	Upper Darby, Pa.
Evans, Hugh Stackhouse EC N 7	Nashville, Tenn.
Evans, Jack Leon TC M 7	Humboldt, Tenn.
Evans, William Henry, Jr. TC N 2	Edgewater, Md.
Evans, William Thomas, III EC M 8	Jacksonville, Fla.
Everhart, Claude Elsbert TC C 2	Winston-Salem, N. C.
Fairy, William Arthur TC C 6	Burlington, N. C.
Farber, Charles TC N 5	Newark, N. J.
Farney, Richard David TC N 1	Glen Ellyn, Ill.
Farrell, Jack Edward TC M 5	Jacksonville, Fla.
Farren, William Joseph TC N 2	New York, N. Y.
Fauser, Walter Bernard, Jr. TC N 2	Rochester, Minn.
Felton, Eric Rogers TC N 4	Wilson, N. C.
Ferguson, Edmund, Jr. TC M 6	Huntington, W. Va.
Feriozi, Dante John TC N 8	Washington, D. C.
Ferris, Fred Irving Eldridge TC C 1	Scarsdale, N. Y.
Fess, Harold Arthur Ronald TC N 2	Dayton, Ohio
Fike, Robert Guy EC M 4	Falls Church, Va.
Finch, James Clark TC N 1	Shaker Heights, Ohio
Fine, Jack Paul EC N 8	Richmond, Va.
Fish, Harry Gustav TC C 7	Penns Grove, N. J.
Fisher, Karl Emmett TC M 7	Kannapolis, N. C.
Fisher, Michael TC N 1	Gary, Ind.
Fisher, Robert Ross TC C 6	Youngstown, Ohio
Fleischer, Martin EC N 4	Brooklyn, N. Y.
Flora, Joseph Wilson, Jr. TC N 5	Maycock, N. C.
Flowe, Benjamin Hugh TC N 3	Concord, N. C.
Floyd, Dagma Leak, Jr. TC M 7	Athens, Ga.
Floyd, Dan Justin TC C 3	Fairmont, N. C.
Folger, Fred, Jr. TC C 3	Mt. Airy, N. C.
Fonger, William Hamilton TC N 3	Chicago, Ill.
Fontana, Emanuele TC N 2	Washington, D. C.
Forbes, Kenneth Keith TC N 3	Armington, Ill.
Fort, David Acrill TC M 4	Gaffney, S. C.
Foshee, Charles Newell TC C 1	Rocky Mount, N. C.

Foster, Joseph Byram TC C 3	New York, N. Y.
Fox, George Henry EC N 5	Oaklyn, N. J.
Frederick, Bert John, Jr. TC N 1	Lansing, Mich.
Freeark, Ray Henry TC N 2	Chicago, Ill.
Freed, Jacob Bressler EC N 8	Winston-Salem, N. C.
Freedman, William EC C 5	Durham, N. C.
Freeman, Jack EC M 6	Washington, D. C.
Freeman, William Shuford TC C 3	Dacusville, S. C.
Freeze, William Robert EC N 6	Charlotte, N. C.
Fries, Norman Warren TC N 3	Savannah, Ga.
Frisch, Joseph EC C 2	Durham, N. C.
Frizzelle, John Lloyd TC C 3	Durham, N. C.
Fry, Louis Claude TC M 3	Burnet, Texas
Fuller, Ellis Adams, Jr. TC C 3	Louisville, Ky.
Fulner, Albert John, Jr. EC M 6	Hartford, Conn.
Furst, William Dunton TC CG 2	Baltimore, Md.
Gable, Laurence John, Jr. TC N 5	Webster Groves, Mo.
Gage, Lucius Gaston TC C 4	Charlotte, N. C.
Gaillard, Stephen Lee TC N 5	Bronxville, N. Y.
Gale, Gaylord Glynn TC N 1	St. Petersburg, Fla.
Gard, Richard TC N 2	Hamilton, Ohio
Gardner, William Henry, Jr. EC N 5	Edenton, N. C.
Garrett, John Edward EC M 3	Asheville, N. C.
Garrett, Norman Hessen J. TC C 3	Mount Kisco, N. Y.
Garrick, Grier Lucius TC N 5	Decatur, Ga.
Garrison, Thomas Erwin TC N 1	Decherd, Tenn.
Garvin, Richard Omas TC M 2	Pocatello, Idaho
Gatling, Myrlon Lydon TC C 2	Norfolk, Va.
Gaudette, Paul Robert EC M 5	Trenton, N. J.
Gaumnitz, Gordon Arthur TC N 7	Washington, D. C.
Gee, William Allan TC M 3	Niles, Mich.
Gentry, William Harold TC C Special	Roxboro, N. C.
Gerke, John Royal TC C 1	Charlotte, N. C.
Gibbon, Anthony Thomas TC N 1	Houston, Texas
Gibbs, George Morgan TC N 3	Washington, D. C.
Gibson, Thomas Francis TC N 1	Marion, N. C.
Giese, Richard William TC M 5	Brooklyn, N. Y.
Gilbert, Clarence Wesley TC N 5	Staten Island, N. Y.
Gilchrist, Charles Pierson TC M 7	Emmerton, Va.
Gill, Francis Kilpatrick TC C 1	Norfolk, Va.
Gillen, Howard William TC N 7	Glen Rock, N. J.
Gilligan, Sidney Rogers, Jr. EC M 3	Warren, Mass.
Gilpin, Roy Edwin, Jr. TC N 2	Carson, Iowa
Ginley, Thomas Henry, Jr. TC N 6	Girardville, Pa.
Ginther, John Oliver TC N 3	Logansport, Ind.
Glancy, William Lemuel TC N 3	Mount Airy, N. C.
Glaser, James Joseph TC N 2	Norwood, Ohio
Glass, Ernest Wilson TC N 7	Sanford, N. C.
Gleason, John Craddock TC M 7	Salem, Va.
Glenn, Anderson Tince, Jr. TC C 1	Burlington, N. C.
Glimcher, Melvin Jacob EC M 3	Chelsea, Mass.
Glos, Richard Corbin TC C 3	Tampa, Fla.
Goar, Frank Robins, Jr. TC M 3	Nashville, Tenn.
Goehrs, Robert Irving TC CG 5	Houston, Texas
Golden, Richard Francis TC N 3	Cumberland, Md.
Goode, Jimmie Lawrence TC N 1	Siler City, N. C.
Goodell, Horace Grant TC N 3	Chicago, Ill.
Goodman, Howard EC N 2	New York, N. Y.
Goodrich, Hugh Robert EC M 2	Houston, Texas
Goodwin, David TC N 2	Memphis, Tenn.

Gorbett, Walter Thomas TC N 1	Fairview Village, Ohio
Gordon, Harold William TC N 5	Portsmouth, Ohio
Gosch, Lawrence Otto TC N 3	Bunker Hill, Ill.
Graham, Joseph Lawton EC N 5	Lake Lure, N. C.
Graner, Morris Dickson TC N 5	Pittsburgh, Pa.
Granville, Joseph Ensign TC N 5	Westport, Conn.
Graves, Paul Bruce TC N 3	Norman, Okla.
Gray, Harry Williams TC N 3	Poolesville, Md.
Green, Emry Capelle TC N 4	Greensboro, N. C.
Green, Patrick EC N 1	Washington, D. C.
Green, Paul, Jr. TC C 3	Thomasville, N. C.
Green, Thomas William TC M 3	Cranston, R. I.
Greene, Joe Matt TC N 1	New Tazewell, Tenn.
Greenwald, Robert Clark, Jr. EC N 4	Norfolk, Va.
Gresham, Rex Maynard TC CG 3	Oklahoma City, Okla.
Griese, Harry Frank TC N 2	Cincinnati, Ohio
Griffeth, Leon Clifford TC C 3	Holmes, N. Y.
Griffin, William Augustine TC C 3	Durham, N. C.
Griggs, Eugene Schenk TC C 4	New Brunswick, N. J.
Grubb, John Gilbert, Jr. EC N 4	Norfolk, Va.
Grudee, Robert Ferdinand TC N 2	Pelham Manor, N. Y.
Gubin, Morton Leon TC N 5	Durham, N. C.
Guida, Stellario John TC N 1	New York, N. Y.
Guiliano, Jerry James TC C 8	Irvington, N. J.
Gunn, Charles Groshon, Jr. TC N 5	Bluefield, W. Va.
Gunst, Cyril Curtis, Jr. TC N 5	Glenshaw, Pa.
Gunst, James Staub TC N 3	Glenshaw, Pa.
Gurganus, William Ray TC N 5	Rocky Mount, N. C.
Guthrie, Frank Edwin TC M 7	Louisville, Ky.
Gwinn, Charles Loomis TC M 2	Hinton, W. Va.
Gypson, Harold Ellington EC N 7	Rome, N. Y.
Hagaman, Hugh Bernard TC M 7	Winston-Salem, N. C.
Hagan, Joseph Louis TC N 3	Owensboro, Ky.
Hagan, Robert Ridley TC M 3	Norfolk, Va.
Hagans, Roger TC M 5	Hartselle, Ala.
Haggerty, William Clifford TC N 8	Lakewood, Ohio
Haines, George Louis, Jr. TC N 5	Washington, D. C.
Hair, William Bates, Jr. EC N 2	Gastonia, N. C.
Hale, Benjamin Taylor TC N 1	New Bern, N. C.
Hale, Lewis Gordon, Jr. TC N 5	Scarsdale, N. Y.
Hall, Harry Duncan TC N 2	Jamestown, N. Y.
Hall, Wayne Thomas TC N 3	Albemarle, N. C.
Halm, Joseph John TC N 2	Chicago, Ill.
Halperin, George Bennett TC C 3	New York, N. Y.
Hamilton, Charles Gilbert TC CG 6	Birmingham, Ala.
Hamman, John Shue TC N 7	Pitcairn, Pa.
Hammer William Harris TC C 2	Lynchburg, Va.
Hammers, James Walter TC N 1	St. Louis, Mo.
Hammond, David Palmer TC N 3	Cerro Gordo, N. C.
Hand, Edgar Hall TC C 2	Pineville, N. C.
Haninger, Glenn James TC N 3	Cilero, Ill.
Hann, William Gribble TC N 2	Brownsville, Pa.
Hanna, Joseph Levings TC N 1	Bainbridge, Ga.
Hanner, Austin Zach TC M 5	Earl, Ark.
Hardage, Robert Kenneth TC M 7	Madden, Miss.
Hardison, Fred Leon EC C 3	Williamston, N. C.
Hardy, Robert Oxford TC N 1	Atlanta, Ga.
Hargett, Derward Mitchell EC N 4	Charlotte, N. C.
Harkness, Richard Roland EC N 5	Randolph, N. Y.
Harlan, Billy Orner TC N 1	Milton, Pa.

Harleston, Robert Haig TC C 1	Charleston, S. C.
Harner, Harry Lee TC M 7	Staunton, Va.
Harper, Richard Ellsworth TC M 5	Healy, Kansas
Harris, Frank Leslie, Jr. EC N 5	Racine, Wisc.
Harris, Henry Sear TC C 3	Norfolk, Va.
Harris, Norman Arthur TC N 4	Ridgecrest, N. C.
Harrison, James Graham, Jr. TC C 7	Mt. Airy, N. C.
Harrison, William David TC N 1	Brunswick, Ga.
Harrison, William Mortimer TC M 7	Newport News, Va.
Harrison, William Robert TC N 1	New Bern, N. C.
Harry, Reece Price TC N 3	Greensboro, N. C.
Hart, Richard Henry EC N 5	Anniston, Ala.
Hartley, Howard Paul TC N 5	Ravenswood, W. Va.
Harvey, Robert Bradbury TC N 1	Miami, Fla.
Hassel, William Frederick TC C 3	Laurinburg, N. C.
Hastings, Richard Owen TC N 1	Chattanooga, Tenn.
Hatcher, Edgar Archibald TC N 2	High Point, N. C.
Hattaway, James Herbert TC C 5	Greensboro, N. C.
Hawkins, Josias Henry TC N 3	Forest Hills, Md.
Haworth, Homer Franklin, Jr. TC N 4	High Point, N. C.
Haynes, Winfred Newman TC M 7	Tracy City, Tenn.
Hays, Thomas Franklin TC N 2	Park Ridge, Ill.
Hayworth, Joseph Allison TC C 5	High Point, N. C.
Hazelwood, Joseph David TC N 3	Snyder, Okla.
Hearty, George Jay TC N 6	Akron, Ohio
Hebb, John Hopewell TC N 5	Baltimore, Md.
Hegarty, James Harold, Jr. TC N 2	Chicago, Ill.
Heid, Ralph George TC N 3	McConnell, Ill.
Helgason, Hardur TC C 4	Isafjordur, Iceland
Hemmings, Hugh Carroll TC N 1	White Plains, N. C.
Hemphill, William Joseph TC M 7	Asheville, N. C.
Henderson, Jesse James TC C 3	Wendell, N. C.
Henderson, Lehmann Melvin TC N 3	Tolono, Ill.
Hendrix, Charles Jones TC N 1	Granite Falls, N. C.
Henninghausen, Frederick Herman EC N 5	Baltimore, Md.
Henry, William Charles TC N 5	Atlanta, Ga.
Hensley, James Edward TC N 1	Man, W. Va.
Herbert, Bueford Gilbert TC M 5	Louisville, Ky.
Herbst, Robert Taylor TC N 3	Charleston, S. C.
Herod, Jack TC M 7	Gallatin, Tenn.
Herring, Howard Egbert, Jr. TC N 5	Wilson, N. C.
Hersman, George Jacob TC N 2	Grand Rapids, Mich.
Hewlett, Marvin McCoy TC M 7	Birmingham, Ala.
Hibbett, John Allen, Jr. TC M 7	Gallatin, Tenn.
Higginbothom, William Edward TC N 2	Shreveport, La.
High, Sherrill Rae TC N 3	Durham, N. C.
Hill, John Kling TC C 10	Snyder, N. Y.
Hill, Thomas Bayard TC N 5	Bronxville, N. Y.
Hinson, Gus DeLacy TC M 5	Orlando, Fla.
Hipple, Harris Blair EC N 5	Spring City, Pa.
Hirshland, Lee David TC N 5	Reading, Pa.
Hodges, John Ward, Jr. TC M 1	Lamesa, Texas
Hodgkins, Norris Lowell TC C 2	Southern Pines, N. C.
Hof, Richard TC CG 6	Sheldon, Iowa
Hogan, Willam Augustus, Jr. TC M 6	Starkville, Miss.
Hoge, DeForest TC N 5	Bronxville, N. Y.
Hoke, George Clayton EC N 1	Claremont, N. C.
Holcombe, Thomas Norwood, Jr. TC N 4	Valdosta, Ga.
Hollingsworth, Connor Wright TC M 9	Cave Spring, Ga.
Hollingsworth, James William TC C 5	Mount Airy, N. C.

Holmes, Brandon McConnell TC N 1	Statesville, N. C.
Homan, Henry Harbach TC C 2	Lebanon, Pa.
Hood, Richard Thornton TC N 5	Kinston, N. C.
Hook, John Arrington TC M 3	Atlanta, Ga.
Hornaday, Harold Preston TC N 3	Greensboro, N. C.
Horne, Emory Henry, II TC M 7	Norfolk, Va.
Hough, Otto Burnell, Jr. TC M 3	Tallahassee, Fla.
Houghton, Robert Allen TC M 7	Berryville, Va.
Houk, Joseph Thomas TC N 3	Indianapolis, Ind.
Houpt, Frank Pearson TC N 5	Willow Grove, Pa.
Howard, Lawrence Albert TC N 1	Welsh, La.
Howell, Joseph Adams, Jr. TC M 3	Richmond, Va.
Howerton, Beverly Royster TC C 3	Durham, N. C.
Hubbard, Robert Doyle TC N 1	Richmond, Va.
Huber, Richard Lumley TC N 7	Scranton, Pa.
Hudson, Fitzgerald Salter EC M 5	Montgomery, Ala.
Hudson, Ralph Fletcher TC N 3	Mt. Morris, Ill.
Huelser, George Wells TC C 2	Staten Island, N. Y.
Huether, Harry Douglas EC M 3	Baltimore, Md.
Hughes, James Albert TC N 1	Kingsport, Tenn.
Hughes, Robert Andrew TC N 5	Trenton, N. J.
Hughes, Robert Louis TC M 4	Davidson, N. C.
Hughes, William James EC C 2	Baltimore, Md.
Humbles, Edward Eugene TC N 1	Watha, N. C.
Hummel, Fred Edgar EC C 1	Hopewell, Va.
Humphrey, Robert LeRoy TC N 1	Baltimore, Md.
Humphreys, Charles Wesley TC N 3	Washington, D. C.
Humphries, Bishop Marvin, Jr. TC C 2	Charlotte, N. C.
Huntley, Benjamin Franklin TC N 5	Winston-Salem, N. C.
Huntley, Justus Robert, Jr. TC N 5	Westfield, N. J.
Hurley, Raymond Dominic TC N 6	Washington, D. C.
Hurwitz, Irving TC N 1	Washington, D. C.
Hutchinson, Herbert Melcolm TC N 5	East Orange, N. J.
Hutt, Richard Rudolph EC N 7	Hammonton, N. J.
Hyde, Henry John TC N 5	Chicago, Ill.
Imhoff, John Leonard EC N 4	Baltimore, Md.
Ingalls, Warren Montgomery TC N 5	Englewood, N. J.
Irons, Robert Sidney TC M 7	Washington, D. C.
Irwin, Frank Moore EC N 5	Raleigh, N. C.
Isenhour, Merle Edwin EC N 7	Durham, N. C.
Ivanovsky, Donat Vladislav TC C 5	Valley Cottage, N. Y.
Jackson, Carroll Shattuck EC M 3	Baltimore, Md.
Jackson, William Morrison EC M 3	Framingham, Mass.
Jacobs, Ralph William TC N 3	Plainfield, N. J.
Jacobson, Henry Samuel TC N 3	New York, N. Y.
Jaffey, Arthur TC C 8	Somerville, N. J.
James, Curtis Adolph TC M 3	Newport, Ky.
Janatka, Joseph TC N 2	Berwyn, Ill.
Jarvis, Hallett Ward TC C 3	Charleston, S. C.
Javer, Jerome Milton TC C 4	Brooklyn, N. Y.
Jay, W. Thomas, Jr. TC C 6	Bradford, Pa.
Jeffcoat, Gaines Ray EC M 8	Opp, Ala.
Jeffries, William Wesley TC N 1	Arlington, Va.
Jenkins, Gideon Witzford TC M 7	Blackey, Ky.
Jenks, Stuart Carlyle EC M 7	Richmond, Va.
Jensen, James Allen EC N 7	Great Neck, N. Y.
Jerritt, James Albert TC N 5	Kenansville, N. C.
Jewell, David William TC N 2	Mission, Kan.
Jilcott, Clarence Poe EC N 3	Kelford, N. C.
Johns, Theron TC N 3	Live Oak, Fla.

Johnson, Edward Louis EC N 7	Bellaire, N. Y.
Johnson, Henry Stanley, Jr. TC M 1	Columbia, S. C.
Johnson, James Patton TC N 5	Lakeland, Fla.
Johnson, Leon Elbert TC M 7	Cheraw, S. C.
Johnson, Ralph Wright TC N 3	Nashville, Tenn.
Johnson, Randall Robert TC N 1	Lakewood, Ohio
Johnson, Robert Lewis TC N 1	Hendersonville, N. C.
Johnston, Richard Arthur TC N 1	Orlando, Fla.
Johnston, Robert Malcus TC N 7	Evanston, Ill.
Johnstone, Robert Dale TC C 8	Munhall, Pa.
Jolliffe, Charles Nelson TC N 1	Winchester, Va.
Jones, Carl Lester TC C 3	Laurinburg, N. C.
Jones, Conway, Jefferson TC C 3	Fountain Inn, S. C.
Jones, David Norval TC N 1	Ft. Lauderdale, Fla.
Jones, Edward Lenoir TC N 3	Gastonia, N. C.
Jones, John Charles TC N 2	Grassy Creek, N. C.
Jones, John Homer TC N 5	Ashley, Pa.
Jones, Luther Clarke TC N 5	Richmond, Va.
Jones, William Bailey TC C 3	Raleigh, N. C.
Jordan, Gerald Ray, Jr. TC C 4	Charlotte, N. C.
Jordan, Riley Moore TC N 1	Timberland, N. C.
Jordan, Samuel Kelly EC N 2	Albemarle, N. C.
Jorgensen, Paul Sejr TC N 2	Chicago, Ill.
Josey, John Speir TC C 2	Bartow, Ga.
Josey, William Ellis TC C 6	Bartow, Ga.
Joy, William Addison TC C 7	Ventnor, N. J.
Joyce, Charles Edward, Jr. TC N 5	Providence, R. I.
Joye, Raleigh LaVerne TC N 2	Columbia, S. C.
Jules, Philip TC CG 5	Los Angeles, Calif.
Justice, Louis Eugene TC N 5	Lynchburg, Va.
Kalander, William Robert TC N 5	Stamford, Conn.
Kalevas, Harry John TC C 7	Rockingham, N. C.
Kaley, Harry Embich EC N 7	Lancaster, Pa.
Kaptur, Joe TC M 5	Lakewood, Ohio
Karcher, Duncan Edward TC N 2	New York, N. Y.
Kasch, Norman Arthur TC N 2	Blue Island, Ill.
Kates, Harry Luther TC N 2	Philadelphia, Pa.
Katz, Arthur Haber TC M 6	Memphis, Tenn.
Katzenstein, Henry Sour EC C 2	Shreveport, La.
Kaufman, Stanley Lionel TC M 3	Burlington, Vt.
Keeler, Joseph Ignatius TC N 1	Columbia, S. C.
Keeney, Carl Roy TC N 3	Glen Ferris, W. Va.
Keevan, Thomas John TC N 2	Forest Hills, N. Y.
Kelley, MacLean TC N 2	Rockford, Ill.
Kelly, Carroll James TC N 3	Richmond, Ind.
Kelly, James Gerald EC N 5	Durham, N. C.
Kelly, John Jackson, III TC N 6	Big Stone Gap, Va.
Kelly, John Vincent EC N 2	Jackson Heights, N. Y.
Kemp, Clarence Edward TC M 3	High Point, N. C.
Kennard, James Cecil TC N 1	Ashland, Ky.
Kennedy, George Ernest EC M 3	Turtle Creek, Pa.
Kennedy, John James TC N 1	Dover, Ohio
Kennedy, Walter Jameson TC N 1	Jacksonville, Fla.
Kenney, John Franklin TC N 2	Scottdale, Pa.
Kereazes, John August TC N 2	Chicago, Ill.
Kerr, William John, III TC C 3	Durham, N. C.
Kessel, Wallace Dwight TC N 3	Beckley, W. Va.
Kesselring, Albert Bruce TC M 7	Louisville, Ky.
Ketts, Benjamin Edward TC N 3	Ralston, Okla.
Keye, John Dudley, Jr. TC N 4	El Centro, Calif.

Kibler, Robert Franklin TC C 5	Durham, N. C.
Kicklighter, James Ellis TC N 8	Sarasota, Fla.
Kiernan, Thomas Joseph TC N 4	New York, N. Y.
Killinger, Raymond Robert TC C 1	Jacksonville, Fla.
King, Joseph Calvin EC N 3	Leaksville, N. C.
Kingsley, Charles Joseph TC CG 2	Mentor, Ohio
Kirk, Claude Roy, Jr. TC M 3	Montgomery, Ala.
Kirkman, David Clifton EC N 4	Pleasant Garden, N. C.
Kiser, John Wesley TC M 6	Maryville, Tenn.
Klaaren, Hobart Ernest TC N 3	Chicago, Ill.
Kline, John Louis, Jr. TC N 1	Norfolk, Va.
Knabe, Lloyd Condon, Jr. TC N 4	Catonsville, Md.
Knight, Austin Ruddock EC M 3	Beverly, Mass.
Knight, Francis Arnold TC N 5	Blountstown, Fla.
Knight, Thomas Gordon EC C 6	Tampa, Fla.
Knotts, Ernest Mack TC N 4	Albemarle, N. C.
Knowland Andrew Richardson TC C 5	Goshen, Mass.
Knowles, Joseph Lamont TC N 5	Mount Olive, N. C.
Koenig, Elmer August EC CG 2	Libertyville, Ill.
Kohl, Thomas Joseph TC N 3	Glenview, Ill.
Koonce, Arnold Jackson TC N 4	High Point, N. C.
Korelitz, Burton Irwin TC C 5	Lawrence, Mass.
Koutsky, George TC N 2	Chicago, Ill.
Kozluk, Walter TC N 2	New York, N. Y.
Krause, Ralf TC N 2	College Point, N. Y.
Krauss, Edward TC N 2	Lynbrook, N. Y.
Krieger, Andrew Francis TC N 2	Troy, N. Y.
Krisza, John, Jr. TC N 2	McKees Rocke, Pa.
Krivit, William TC C 5	Linden, N. J.
Kronke, Edward Blaise TC N 5	Queens Village, N. Y.
Krueger, Robert Otto TC N 3	Appleton, Wisc.
Kucerik, Edwin Anton TC N 1	West Springfield, Mass.
Kuhlman, Ormand Frederick TC N 2	Elmore, Ohio
Kunkel, Edward X. TC C 3	Williamsburg, Va.
Kunkel, Walter Thomas TC C 3	Easton, Pa.
Kurtz, William Brownlow EC N 5	Waterbury, Conn.
Kuscevichi, Edward Nick TC N 2	Chicago, Ill.
Kusturiss, Michael Emanuel TC N 5	Cannonsburg, Pa.
Ladutko, John TC M 8	West Haven, Conn.
LaHatte, Joseph Fitzgerald TC N 5	Falls Church, Va.
Lahtinen, Robert Wyman TC N 2	Chicago, Ill.
Lamb, Frank Thompson TC CG 4	Rochester, N. Y.
Lamb, Warren Stacy TC N 2	William Island, Nebr.
Lambert, M. Charles TC C 8	York, Pa.
Landis, Clayton Dallas TC N 2	Elgin, Ill.
Lange, Carl James TC N 3	Oil City, Pa.
Langton, John Ellis TC N 4	Williamsburg, Va.
Lapham, George Sealy, Jr. TC N 3	Columbus, Ga.
Larew, Hugh Sanford TC N 5	Mocksville, N. C.
Larsen, Robert John TC M 3	Kansas City, Mo.
LaRue, Jim Elmer TC N 3	Clinton, Okla.
Lathrum, Keith Mathias, Jr. TC N 3	Clinton, Okla.
Lauffer, Richard Albert TC C 3	Passaic, N. J.
Laverty, Robert Anthony TC M 3	Leominster, Mass.
Lawler, Charles Adrian TC N 1	Marshall, Va.
Lawson, William Barnes, Jr. TC N 3	Arlington, Va.
Lawton, William Stanley TC N 3	St. Petersburg, Fla.
Leard, Jack Allman TC M 7	Hartwell, Ga.
Leavitt, Brooks Russell TC N 4	W. Hartford, Conn.
Lee, Edwin Borden TC N 5	Goldsboro, N. C.

Lee, Herbert Martin TC N 2	Baldwin, N. Y.
Lee, Joe Osborne, Jr. TC M 7	Salisbury, N. C.
Lee, Joseph Martin, Jr. TC N 1	Erwin, N. C.
Legare, John Edward TC N 1	Waycross, Ga.
Leigh, Robert Edward, Jr. TC C 5	Kinston, N. C.
Leitheiser, William John TC C 5	Clearwater, Fla.
Lemley, William Marvin TC N 1	Smithfield, W. Va.
Lent, Robert Eugene EC N 2	Minneapolis, Minn.
Leograndis, Stephen Cosmos TC N 5	Framingham, Mass.
LeValley, Victor Ritzendollar TC N 5	Long Branch, N. J.
LeVine, Bertram TC C 7	Paterson, N. J.
Levy, Julius Leo EC N 6	Baltimore, Md.
Lewis, Clifford Allen TC C 2	Cleveland, Ohio
Lewis, James Kelly EC N 4	Mount Holly, N. C.
Lewis, Worth Pegram TC C 3	Raleigh, N. C.
Lies, William, III TC C 6	Coleman, Ga.
Lilly, Edward Charles TC N 1	New Orleans, La.
Linberg, Eugene Joseph TC C 7	Carney's Point, N. J.
Lind, John Henry EC N 2	Clarendon, Vt.
Lindsey, Ray Lavond EC M 6	Blakely, Ga.
Linn, Jacob Paul TC M 5	St. Petersburg, Fla.
Linsley, John Henderson TC M 3	N. Windham, Maine
Lipsitz, Lee Stanley TC C 3	Ahoskie, N. C.
Little, Charles Edward TC M 5	Norfolk, Va.
Lodor, James Craig EC N 4	Wilmington, N. C.
Logan, David Malcolm EC M 3	White River Junct., Vt.
Long, Paul Ellsworth EC N 7	Roanoke, Va.
Longenecker, Donovan Leroy TC N 2	Lewisburg, Ohio
Longley, Clarence Mobley, Jr. TC N 1	Orlando, Fla.
Lopez, Ramon TC N 3	McAllen, Texas
Lorenzen, Robert Frederick TC C 5	Toledo, Ohio
Love, Frank Swindell, Jr. TC C 5	Durham, N. C.
Lowe, Donald Scott TC N 2	Key West, Fla.
Lowe, Gentry Hearde TC N 1	Portsmouth, Va.
Lucas, Bernia Blackburn, Jr. TC N 3	Garrison, W. Va.
Lucas, Stephen John TC N 3	Beaverdale, Pa.
Lundstrom, George Henry TC N 1	New York, N. Y.
Lutterloh, Ralph Buxton TC N 3	Fayetteville, N. C.
Lyerly, James Gilbert TC N 4	Jacksonville, Fla.
Lynes, Gerald Wynfield TC N 3	Ridgeland, S. C.
McAlduff, Thomas Philip TC N 5	Garden City, N. Y.
McAlister, Joseph Howard TC C 5	Caruthersville, Mo.
McBane, Joseph Harold TC N 5	Greensboro, N. C.
Macbeth, William Benson TC N 2	Ventnor, N. J.
McCabe, William John, Jr. TC N 2	Cambridge, Mass.
McCain, William Crawford EC M 7	Hughes, Ark.
McCall, William TC N 3	Winston-Salem, N. C.
McCallum, Paul Gregory TC N 1	Washington, D. C.
McCambridge, John Francis, Jr. TC N 6	Chevy Chase, Md.
McCanless, Edgar Eugene TC C 5	Canton, Ga.
McCarver, Charles Truitt TC N 2	Bridgeport, Conn.
McCaskill, Dudley DeWitt TC C 4	Tifton, Ga.
McClelland, Dean Smucker EC N 7	Johnstown, Pa.
McClellan, Thomas Carson TC N 1	Tellico Plains, Tenn.
McCloskey, William Francis, Jr. TC N 1	New Brunswick, N. J.
McCown, Wallace Hardin TC N 5	Johnson City, Tenn.
McCracken, William Woods TC N 7	Henderson, N. C.
McCreight, Paul Willard TC N 5	Huntington, W. Va.
McCulloch, Francis Walton EC M 6	Huntsville, Ala.
McCusker, Edward Frank EC N 4	Endicott, N. Y.

McDonald, Frank Bethune TC N 5	Columbus, Ga.
McDonald, John Woodrow TC N 1	Orange, Texas
McDonald, Joseph Frank TC N 2	Freeport, N. Y.
McDonald, William Howard TC N 1	Baltimore, Md.
McDonald, William Maddox TC N 3	Washington, D. C.
McDougald, John Atchison TC C 5	New Orleans, La.
McDowell, Theodore Noyes TC N 4	Washington, D. C.
McEldowney, Thomas Cairns TC N 2	Charleston, W. Va.
McEntyre, Hubert TC M 5	Tryon, N. C.
McGinnis, George Ira TC M 5	Rochester, N. Y.
McGowan, John Richard TC N 3	Amboy, Ill.
McGraner, James Ernest TC N 2	Haydenville, Ohio
McGrath, Frederick John, Jr. EC M 7	Morris, N. J.
McGraw, William Higgins TC N 5	New York, N. Y.
McGuire, Donald TC M 6	Baltimore, Md.
McGuire, Neal Warren EC C 5	Winston-Salem, N. C.
McKeague, Robert Edmond EC C 10	Petersburg, Va.
McKee, William David EC N 3	Forest Hills, N. Y.
McKelvie, Henry R. TC C 6	Huntsville, Ala.
McKenzie, James Williams TC N 2	Washington, D. C.
Macklin, Theodore Ora TC M 3	Lowell, Mass.
McLaughlin, Robert Theodore EC C 8	Charlotte, N. C.
McMillan, Robert Leroy TC M 7	Raleigh, N. C.
McMurran, William Royall EC N 5	Norfolk, Va.
McMurray, Samuel Franklin TC N 2	Tampa, Fla.
McMurry, Benjamin Franklin, Jr. TC N 3	Knoxville, Tenn.
McNeely, Robert Louis TC M 3	Natchez, Miss.
McPherson, Harry Thurman TC C 5	Walnut Cove, N. C.
Macrae, Robert Baird TC N 1	Plainfield, N. J.
McSwain, William Lawrence, Jr. TC N 7	Glen Alpine, N. C.
McWilliams, Thomas Peter TC C 5	Scranton, Pa.
McWhorter, John Lloyd TC N 2	Waxhaw, N. C.
Mahony, Donald Vincent TC N 6	Baltimore, Md.
Majzun, Joseph, Jr. TC N 1	Bellaire, Ohio
Maki, Arthur Onnie TC N 2	Homeswood, Ill.
Makosky, Robert Charles TC C 5	Alhambra, Calif.
Malcolm, Robert Samuel TC C 2	Dayton, Ohio
Maley, Charles Bernard TC N 1	Beech Bottom, W. Va.
Malone, Brainerd Ernest, Jr. TC N 3	Wewoka, Okla.
Malone, Harold John TC C 9	Bridgeport, Conn.
Mangum, Junius Adolphus TC N 2	Salisbury, N. C.
Mangum, Maynard Henry TC M 7	Hickory, N. C.
Mankin, Harold Turner TC N 5	Chevy Chase, Md.
Mann, Clyde Robinson TC M 7	Manteo, N. C.
Mann, Frederick L., Jr. EC C 7	Drexel Hill, Pa.
Mansfield, Harold Eugene TC C 3	Jeannette, Pa.
Mansur, Richard Winthrop TC M 6	St. Petersburg, Fla.
Markham, Charles Buchanan TC C 5	Durham, N. C.
Marquess, John Rogers TC M 5	Decatur, Ga.
Marsh, Spinks Hamilton TC C 6	Monroe, N. C.
Marshall, Charles Hayward, Jr. EC N 7	Washington, D. C.
Marshall, Harrison Leroy TC M 7	Belton, S. C.
Marshall, William Donald TC N 5	Memphis, Tenn.
Martin, Abraham William TC CG 2	Peckville, Pa.
Martin, Joseph McKnight TC M 7	Kenton, Tenn.
Martinat, Edwin Henry TC N 3	Lenoir, N. C.
Martinelli, Robert Owen TC N 5	Covington, Va.
Martorell, Richard Albert TC C 3	Tampa, Fla.
Maschmeier, Robert Harry TC CG 5	St. Louis, Mo.
Mason, William Albert EC N 5	Detroit, Mich.

Massey, Thomas Benjamin TC N 2	Charlotte, N. C.
Matherly, Ulysses Grant TC M 5	Sarasota, Fla.
Matthai, Paul Frederick TC N 2	Baltimore, Md.
Matthews, James Crowder TC N 3	Winton, N. C.
Maxwell, David Jack, Jr. EC C 7	Johnstown, Pa.
Maxwell, Robert Reginald EC M 3	Long Island, N. Y.
May, William Leece, Jr. TC M 7	Tazewell, Va.
Mays, Alexander Alen TC N 3	Pittsburgh, Pa.
Meader, Philip Warren EC M 3	Whitinsville, Mass.
Means, Harvey Hugh TC N 3	Mojave, Calif.
Meek, James Monroe, Jr. TC N 1	Knoxville, Tenn.
Meeker, James Allen TC N 2	Toledo, Ohio
Meinecke, Evans Arnold TC C 7	Ridgewood, N. J.
Melton, Robert Witcher TC C 3	Brevard, N. C.
Mendenhall, John Henry TC N 1	Orlando, Fla.
Menke, Robert Louis TC N 2	Elgin, Ill.
Merrick, Robert Wakefield TC N 3	Salina, Kan.
Messinger, Arthur Louis TC N 4	Chicago, Ill.
Metz, William TC N 1	Tolono, Ill.
Metzger, Paul A. TC N 2	Columbus, Ohio
Meyer, Warren John EC N 5	Staten Island, N. Y.
Micara, Francis Anthony Edward TC N 7	Brooklyn, N. Y.
Michael, Herman Lloyd TC M 1	Bradenton, Fla.
Mieczkowski, John Joseph TC M 3	Westport, Mass.
Mihalow, John Joseph TC N 3	Trenton, N. J.
Miller, Anthony George TC N 6	Chevy Chase, Md.
Miller, Arthur Marcus, Jr. TC N 5	Elmira, N. Y.
Miller, Francis Brett TC C 1	Washington, D. C.
Miller, Frank Lane EC N 4	Charlotte, N. C.
Miller, Fred James TC C 1	Burlington, N. C.
Miller, Laurence Spurlock, Jr. TC N 1	Brunswick, Ga.
Miller, Marvin Parmcek TC N 5	Chicago, Ill.
Miller, Walter James, Jr. TC N 5	Salisbury, N. C.
Miller, William Hugh EC N 5	Highland Park, Mich.
Milne, Peter TC N 2	Niagara Falls, N. Y.
Minnich, Richard Davidson TC N 1	Weston, W. Va.
Mintz, Ronald Earl TC M 3	Rocky Mount, N. C.
Mitrushi, Peter Perry TC M 7	Atlantic City, N. J.
Moehlenkamp, Fred G. TC CG 3	Wyandotte, Mich.
Moen, Roger Orin TC N 5	Raleigh, N. C.
Mohler, William Edward TC M 7	Charleston, W. Va.
Moody, Austin Lee TC N 3	Woodstown, N. J.
Moore, Forrest Moody TC N 1	Thomson, Ga.
Moore, George Ruskin TC C 1	Baltimore, Md.
Moore, George Walker St. Clair TC N 6	Bluefield, W. Va.
Moore, Louis Doyle, Jr. TC C 3	Toccoa, Ga.
Moore, Robert Emmett TC M 7	Marion Junction, Ala.
Moore, Sherwood Edgar TC C 6	Daytona Beach, Fla.
Mooring, Francis Paul TC C 8	Rocky Mount, N. C.
Morgan, Alton Carroll TC N 5	Winston-Salem, N. C.
Morgan, Charles Edwin TC M 7	Albertville, Ala.
Morgan, James Leroy TC N 3	Norfolk, Va.
Morgan, Joseph Patrick TC N 5	Tulsa, Okla.
Morgan, Lawrence Eugene TC N 1	Advance, Ohio
Morgan, Paul Justice TC N 1	Kernersville, N. C.
Moring, Bernard Christopher EC M 3	Norfolk, Va.
Morningstar, Charles Franklin TC N 1	Marietta, Pa.
Morris, George Cooper TC N 6	Beaumont, Texas
Morrison, Francis Warren TC N 5	Daytona Beach, Fla.
Morrow, Richard Carl TC M 3	Wyandotte, Mich.

Morse, James Reynolds TC N 2	Mason City, Iowa
Morton, Alfred Samuel TC M 7	Albemarle, N. C.
Mosher, Edward Platt, Jr. TC N 1	Charleston, S. C.
Mraz, James Joseph William TC N 2	Chicago, Ill.
Mullen, Harris Hopkins TC N 2	Tampa, Fla.
Muller, Donald H. EC N 6	Brooklyn, N. Y.
Mullinnix, Ralph Charles TC N 3	Indianapolis, Ind.
Munro, Bursell Galaida TC N 2	Miami, Fla.
Murchison, Clinton Williams, Jr. EC M 7	Dallas, Texas
Murphy, Robert Logan TC N 2	Ocala, Fla.
Murray, Calvin Leo EC M 3	Butler, Okla.
Murray, John Kevin TC N 1	Long Island, N. Y.
Murray, Robert Filgo TC C 5	Lenoir, N. C.
Musial, Walter Stanley TC N 1	Castle Haynes, N. C.
Myatt, Ernest George TC N 3	Durham, N. C.
Myers, Charles Rudolph EC C 8	Haddonsfield, N. J.
Myers, Robert Eugene TC N 3	Clinton,Ill.
Nabow, Stanley Ellman EC C 2	Charlotte, N. C.
Nagler, Gordon Richard TC N 2	Baltimore, Md.
Narron, Talmadge L. G. TC N 5	Kenly, N .C.
Natterson, Joseph Morton TC N 5	Wheeling, W. Va.
Nauman, Robert Vincent TC C 9	Stroudsburgh, Pa.
Neal, Charles Warren TC N 6	Oak Hill, W. Va.
Nease, Edgar Harrison TC C 5	Salisbury, N. C.
Nelson, Donald Palmer TC C 3	Pinehurst, N. C.
Nelson, Joseph Lee, Jr. EC M 7	Norfolk, Va.
Newburg, Peter Lee TC N 3	Austin, Minn.
Newcomb, Nelson Faulkes TC N 4	Roselle, N. J.
Newell, Johnie Clinard TC N 1	Ramseur, N. C.
Newman, Ernest Gustave TC N 2	Pensacola, Fla.
Newsome, George Hassell TC N 1	Tarboro, N. C.
Newton, Ernest Cliborne TC N 3	Skipwith, Va.
Newton, Robert Lee TC N 4	Durham, N. C.
Nicholas, James Ernest EC M 8	Frisco City, Ala.
Nichols, Elwyn Coates TC N 1	Birmingham, Ala.
Nichols, Robert Hill TC N 2	Pittsford, N. Y.
Nicholson, Hobart Garrett TC N 1	Cartersville, Ga.
Nickels, William Washington, Jr. TC N 5	Bristol, Tenn.
Nickerson, Marcus Franklin, III TC N 3	Knoxville, Tenn.
Nickinson, Edward Phillips, Jr. EC C 2	Pensacola, Fla.
Nist, Donald Edward TC N 3	Chicago Heights, Ill.
Noble, Gerald Stewart EC M 3	Chicago, Ill.
Noell, John Henly TC M 7	Shelby, N. C.
Nolen, Andrew Jack TC N 2	Winona, Texas
Nordin, Warren Alfred TC N 3	La Grange, Ill.
Nordmann, Thomas Edward TC M 7	De Land, Fla.
Nordstrom, Frank B. TC N 3	Glen Ellyn, Ill.
Norris, John Ernest, Jr. EC N 6	Columbia, N. C.
Norris, Robert Willingham EC N 5	Chattanooga, Tenn.
Northup, Aldrich Holt TC N 4	Pensacola, Fla.
Nunnally, James Ray EC N 5	Hugo, Okla.
Oakes, Burton David TC N 1	Greensboro, N. C.
Oakley, William Fred, Jr. TC N 3	Savannah, Ga.
Obenchain, John Alan TC N 1	Logansport, Ind.
O'Brien, Hubbert Liguori EC M 3	Baltimore, Md.
O'Brien, James Dannis TC N 1	Lake City, Iowa
O'Connell, Thomas Sullivan TC N 2	Waunakee, Wisc.
Oder, Robert James TC N 5	Toledo, Ohio
Oetzell, Walter Allen TC N 2	Villa Park, Ill.
O'Kane, Calvin Russell TC C 7	Columbus, Ohio

Ollen, Walter George TC N 2	Jamaica, N. Y.
Olliff, Charles Kendrich TC M 7	Orieda, Fla.
Olson, Robert Dale TC N 2	La Moille, Iowa
O'Neal, John Thomas TC N 3	Washington, D. C.
Onken, Warren H. TC C 6	Brooklyn, N. Y.
Ornoff, Harold EC C 6	Durham, N. C.
Osborne, Marion Wade TC M 7	Erlanger, N. C.
Owen, David Shreve TC M 3	Lancaster, Ohio
Owen, Herman William TC N 7	New York, N. Y.
Owen, Jean Worth TC M 5	Tallahassee, Fla.
Owen, Lincoln TC C 3	Cleveland, Ohio
Owen, William Edison TC M 5	Washington, D. C.
Oyen, William TC N 3	Chicago, Ill.
Pablo, Herbert Sebastian, Jr. TC N 5	Miami, Fla.
Pace, Thomas Marshall TC C 4	Pensacola, Fla.
Pachuki, Benjamin Joseph TC C 5	Wallingford, Conn.
Padgett, Joseph Louis TC N 3	Burns City, Ind.
Page, Ernest Benjamin TC N 3	Raleigh, N. C.
Page, Robert Lionel TC N 3	Erick, Okla.
Pappas, Theodore John TC N 2	Belleville, Mich.
Pardee, Graham F. TC N 2	Floral Park, N. Y.
Park, Ulna Foster TC N 3	Columbia, Tenn.
Parkhurst, Robert Louis TC M 7	Montclair, N. J.
Parsons, David Willard TC N 5	Louisville, Ky.
Partridge, William Elmore TC N 2	Beacon, N. Y.
Pasker, Leonard Walter TC N 1	Frackville, Pa.
Past, Si Alexander TC M 5	Chattanooga, Tenn.
Patafio, John Joseph TC N 2	Brooklyn, N. Y.
Pate, Thomas Waldo TC C 8	Erwin, N. C.
Patience, Kurt Dixon TC M 7	St. Augustine, Fla.
Patrick, William Franklin TC N 3	St. George, S. C.
Patton, Calvin Eugene TC N 1	Washington, D. C.
Patton, Michael Franklyn TC N 3	Spartanburg, S. C.
Patton, Russell Homer EC C 2	Jonesboro, Ark.
Paugh, Lawrence Richard TC N 2	New York, N. Y.
Paveglio, Richard Lewis TC N 2	Waukegan, Ill.
Payne, William Harold TC M 7	Granite Falls, N. C.
Paytash, Joseph, Jr. TC N 3	Lafferty, Ohio
Pearson, Cordie Lester, Jr. TC N 2	Wilmington, N. C.
Pease, Robert Glenn TC N 2	Canandaigua, N. Y.
Peasley, John Warren TC N 3	Flossmoor, Ill.
Peebles, Withers Goodwyn TC M 7	Mooresville, Ala.
Peksa, Charles Francis TC N 2	Catonsville, Md.
Pennington, Schuyler Wayne TC C 3	Mt. Holly, N. C.
Pering, Thomas Henry TC N 2	Springfield, Mo.
Perkins, William Allan TC M 3	Charlottesville, Va.
Perlow, Albert TC N 2	Baltimore, Md.
Perry, James Warden TC N 3	Oak Hill, W. Va.
Perry, Leland Myre TC N 2	Walker, Mo.
Perryman, Frank Gene TC N 1	Sylacauga, Ala.
Peters, Charles Eugene TC C 3	Alexander, Iowa
Petersen, Charles Andrew TC N 3	Elgin, Ill.
Peterson, Herrick Roland TC N 5	Day Book, N. C.
Peterson, James Hardin TC N 3	Lakeland, Fla.
Pettit, Thomas Kenneth TC N 1	Baltimore, Md.
Peyton, Thomas Pendleton, III EC M 5	Crozet, Va.
Pfaff, Andrew John TC N 5	Riverton, N. J.
Phillips, John Drury EC M 3	Hingham, Mass.
Phillips, Leonard TC N 5	Pittsburgh, Pa.
Phillips, Nelson Lee TC M 7	Dewey Rose, Ga.

Phillips, Robert Derrick TC N 5	Atlanta, Ga.
Piccone, Domenic TC N 3	Ardmore, Pa.
Pickett, John Philip TC M 7	Charleston, S. C.
Pierce, John Anthony, Jr. TC M 3	Arlington, Mass.
Piggford, Roland Rayburn TC N 5	Monongahela, Pa.
Pingree, Frank Burton TC N 3	Alameda, Calif.
Pinnell, William Brooks TC N 3	Morehouse, Mo.
Pittman, Luther Hollingsworth TC N 5	Baltimore, Md.
Plant, Frank Morrell TC M 7	Opelika, Ala.
Plessner, Fred Theodore TC N 5	Great Neck, N. Y.
Poerschke, Edward Robert TC N 2	Detroit, Mich.
Poindexter, Claibourne Worth TC C 1	Greensboro, N. C.
Polier, Arthur TC C 2	Raleigh, N. C.
Poling, Edwin Ray TC N 2	Clarksburgh, W. Va.
Polinger, David Harris TC C 1	Mt. Vernon, N. Y.
Pool, Stedman Charles TC N 5	Norfolk, Va.
Poole, Thomas Oliver, Jr. TC N 3	Galesburgh, Ill.
Pope, Warren Harold TC C 2	Bordentown, N. J.
Porter, Harold Ellis TC N 2	Afton, Iowa
Post, Jerald Bernard TC N 3	Palisade, Neb.
Poteat, Thomas Lawton TC N 6	Durham, N. C.
Povlsen, Paul Kristian, Jr. TC N 3	Racine, Wisc.
Powell, Harry Rutter EC N 5	Norfolk, Va.
Powell, John Henry TC N 2	Miamisburg, Ohio
Powell, John Lynn TC C 7	Wichita, Kan.
Powell, Norbert John TC N 1	Wilcox, Pa.
Powell, Paul Stewart TC N 3	Denver, Colo.
Powell, Robert William TC N 5	Goldsboro, N. C.
Powers, Richard Walter, Jr. EC M 3	Pittsford, Vt.
Pratt, Harry Chester TC M 1	Bradenford, Fla.
Presson, James Roy TC C 2	Newport News, Va.
Preston, Clifford Thomas TC N 3	Oakland, Calif.
Price, Richard Jay TC N 2	Marion, Ohio
Priemer, August Bernhard TC C 2	New York, N. Y.
Prigmore, Earl Herold TC N 3	Alva, Okla.
Pritchard, Robert Grant TC N 3	Reading, Pa.
Procopion, Samson John EC N 5	Waterbury, Conn.
Pruitt, James Henry TC N 2	Danville, Va.
Prytherch, John Pershing TC C 8	Binghampton, N. Y.
Puckett, Eugene Richard TC N 1	Norfolk, Va.
Putnam, Gerrie Price TC N 1	Washington, D. C.
Quain, John Joseph TC N 1	Stamford, Conn.
Quigley, John Edward TC M 2	Quantico, Va.
Quinn, Amory Edward, Jr. TC N 2	Birmingham, Ala.
Quirk, Hugh Griffith TC N 7	Wingate, Ind.
Rabenberg, Jack Rodney TC N 4	Lime Spring, Iowa
Rabin, David EC M 6	Long Island, N. Y.
Raether, Harold TC N 2	Toledo, Ohio
Ramey, Robert Lee EC CG 5	Middleton, Ohio
Randleman, Ernest Augustus TC N 1	Mount Airy, N. C.
Ranon, Severin Donald EC N 5	Irvington, N. J.
Rasnake, Marshall Everett TC N 1	La Follette, Tenn.
Ratcliff, Harold B. TC N 1	Indianapolis, Ind.
Ratliff, Earl Gordon TC C 1	Portsmouth, Va.
Rauh, Albert Richard TC N 3	San Francisco, Calif.
Rawley, Nelson Simpson TC N 3	Hyattsville, Md.
Rawlings, Raymond Walton TC N 2	University City, Mo.
Rawls, John Lewis TC N 5	Suffolk, Va.
Ray, Philip Lancaster TC M 7	Greenville, S. C.
Raymond, Harry Paul TC C 2	Collingswood, N. J.

Read, William Marsden, III TC N 5	Maywood, N. J.
Ready, Lewis Samuel TC N 1	Graniteville, S. C.
Reams, Hugh Etherton TC N 7	Toledo, Ohio
Reardin, Charles Richard TC N 3	Fairlawn, N. J.
Reckenbeil, Arthur Jacob EC N 5	New Hyde Park, N. Y.
Rector, Marion Mitchell TC N 1	Inman, S. C.
Reece, Mark Holcomb TC N 3	Jonesville, N. C.
Reed, Ralph Alton TC N 3	Winston-Salem, N. C.
Rees, Harold Bernard TC N 5	Baltimore, Md.
Regester, Robert Thomas TC C 2	Baltimore, Md.
Reid, James Herbert, Jr. EC M 7	Ethel, W. Va.
Remmey, John Grouch TC N 5	Philadelphia, Pa.
Ressler, Duane Wilbur TC N 2	Harrisburg, Pa.
Reyle, John Edward EC C 5	Radburn, N. J.
Reynolds, Howard Dale TC N 1	Fort Worth, Texas
Reynolds, James Alonza TC N 3	Washington, Ga.
Reynolds, James Edward TC M 5	Camden, N. J.
Reynolds, Louis Francis TC N 1	Cranston, R. I.
Rhett, Albert Haskell EC M 7	Westfield, N. J.
Rice, Walter Bernhard TC C 3	Greenville, S. C.
Rice, William Elbert TC M 3	Duncan, Ariz.
Richards, James Edgar, Jr. TC N 3	Louisville, Ky.
Richardson, Frank Perry TC M 3	Nashua, N. H.
Richey, John Aubrey TC M 5	Leesburg, Fla.
Rickert, Robert Dale TC N 5	Tuckahoe, N. Y.
Ridgely, David Stewart EC M 3	Towson, Md.
Riggall, Arch John TC C 7	Huntington, W. Va.
Rigsbee, Albert Vinson TC N 3	Durham, N. C.
Riley, Joseph Paul TC N 5	Tampa, Fla.
Riley, Russell Lee TC N 5	Hamilton, Ohio
Rima, Donald Robert TC N 2	Parish, N. Y.
Rita, George Thomas TC N 5	Chevy Chase, Md.
Rivers, Charles Guy EC N 5	New Rochelle, N. Y.
Roach, Francis Lawrence TC N 3	Chicago, Ill.
Roach, James Anthony TC N 3	Toledo, Ohio
Roan, John Sylvester TC M 5	Pattison, Miss.
Roberts, John David, Jr. TC N 1	College Park, Ga.
Roberts, Levi James TC N 4	Norfolk, Va.
Roberts, Raymond Craerin TC N 2	Washington, D. C.
Roberts, William Fred, Jr. TC M 4	Flint, Mich.
Robins, Clifford Benjamin, Jr. EC M 3	Tonawanda, N. Y.
Robinson, Harry Delmer EC C 6	Winchester, Va.
Robinson, James Arlington TC M 5	Chattanooga, Tenn.
Rocker, Charles Lamar, Jr. TC N 2	Lakeland, Fla.
Roden, Howard Melville TC N 1	Baltimore, Md.
Roderick, Robert Lee TC N 4	Mt. Prospect, Ill.
Roellke, Robert Louis TC C 1	Maplewood, N. J.
Rogers, Henry Moore TC N 5	Wilson, N. C.
Rogers, Ira Bascomb, Jr. TC M 7	Maryville, Tenn.
Rogers, James William TC M 6	Childress, Texas
Rogers, Ralph Peele, Jr. TC N 3	Durham, N. C.
Rogers, Richard Ovid, Jr. TC C 3	Bluefield, W. Va.
Rollins, Ray Freemont TC N 7	Wytopitlock, Maine
Root, James William, Jr. TC N 3	San Bruno, Calif.
Rose, Lester William EC C 3	Durham, N. C.
Rosenthal, Marvin Daniel TC N 6	Baltimore, Md.
Ross, Walter Lee TC N 2	Baltimore, Md.
Rosson, Roland Broaddus TC N 1	Washington, D. C.
Rountree, Albert Converse EC C 8	Charlotte, N. C.
Rowe, Frank Hammett, Jr. EC N 5	Washington, D. C.

Roy, Eugene Hegezippe, Jr. TC N 1	Norfolk, Va.
Rudy, Robert Lee TC N 3	Osborn, Ohio
Ruehl, Theodore George TC N 3	Chicago, Ill.
Rumbaugh, Frank Clayton EC N 6	Burgettstown, Pa.
Russell, Donald, Jr. EC C 3	Hamden, Conn.
Russell, Douglas McNair TC M 7	Dillon, S. C.
Russell, George Thompson EC C 3	Hamden, Conn.
Russell, Marvin Earl TC N 2	Stratton, Nebr.
Russell, Robert Lee TC M 2	Winder, Ga.
Russell, William Arthur TC C 2	Marshall, Va.
Russo, Nicholas Daniel TC N 1	Jersey City, N. J.
Ryan, John Edward TC N 5	Villanova, Pa.
Ryan, William John TC N 3	Miami, Fla.
Sacrinty, Otis Mac TC M 7	Reidsville, N. C.
Sager, Stanley Melvin TC C 1	Washington, D. C.
Salm, Delwin Andre TC N 3	La Grange, Texas
Salter, Wallace Bruce TC N 3	Bartow, Ga.
Sandberg, Theodore Ernest TC N 5	Massillon, Ohio
Sandens, John Alexander TC N 3	Vancouver, Wash.
Sanders, Lee Samuel TC N 1	Lindsay, Calif.
Sandlin, Talbert Hacker TC M 5	Berea, Ky.
Santi, Dominic Louis TC N 2	Cicero, Ill.
Sapp, Ora William TC N 2	Augusta, Kan.
Sarazen, Paul Mark, Jr. TC N 5	White Plains, N. Y.
Sartin, James Vernon TC N 1	Booneville, Miss.
Sattler, George Richard EC M 5	Crestwood, N. J.
Saturday, Harrison Kenneth EC N 5	Durham, N. C.
Sauerhoff, Robert Hamlin TC N 1	Severn, Md.
Saunders, Frank Leonard TC N 1	Green Cove Springs, Fla.
Saunders, Lynn Corwin EC C 7	Irvington, N. J.
Saunders, Robert Neal EC N 5	Medina, N. Y.
Saunders, Stanley Stewart TC N 4	High Point, N. C.
Savage, Malcolm Brooks TC M 5	Modest Town, Va.
Savedge, Charles Eugene TC N 8	Richmond, Va.
Sax, Leonard Leward EC M 3	New York, N. Y.
Scahill, Thomas Jefferson TC N 2	Kansas City, Mo.
Scales, Thomas Nathaniel TC N 1	Hickory, N. C.
Scanlon, William John EC N 4	Endicott, N. Y.
Scarrow, David Shotwell TC C 2	Detroit, Mich.
Scates, Julian McDonald TC N 5	Fulton, Ky.
Schafer, Richard Lewis TC N 5	Philadelphia, Pa.
Schauble, John James TC N 2	Paterson, N. J.
Scheidt, Ralph Norman Stroh TC N 3	Lincoln, Nebr.
Schevers, Donald Edward TC N 2	Northbrook, Ill.
Schilling, Harold George TC N 3	Aberdeen, S. Dak.
Schneider, James Gordon TC N 3	Kankakee, Ill.
Schneider, Ralph Russell EC N 7	Queens Village, N. Y.
Schnell, Charles Norman TC N 5	Cranbury, N. J.
Schoenlaub, Paul Wallis EC M 5	Parris Island, S. C.
Scholes, Med Hooper, Jr. TC N 3	Paris, Tenn.
Schriver, Roy Albert TC N 5	Berwyn, Ill.
Schroeder, Hobart Arthur EC N 5	Torrington, Conn.
Schuler, Edwin Denby TC N 2	Florence, S. C.
Schuurman, Richard Bernett TC N 3	Midland Park, N. J.
Schwartz, Arthur TC N 1	Brooklyn, N. Y.
Schwartz, Benjamin TC N 4	Omaha, Nebr.
Schwartz Stephen Wise TC N 5	Woodmere, N. Y.
Schweinfurth, Joseph David TC N 4	Bellefontaine, Ohio
Scoggins, Marvin Carr TC N 2	Durham, N. C.
Scollard, Robert Joseph TC N 3	White Plains, N. Y.

Scott, Charles William TC N 2	Sioux City, Iowa
Scott, Kenneth McCoy EC N 4	Charlotte, N. C.
Scott, Robert Archibald, Jr. TC M 4	Bedford, Va.
Scott, Walter, Jr. TC N 4	Baltimore, Md.
Seabury, Robert Glen TC N 4	Pisgah, Iowa
Seay, Thomas Waller, Jr. TC C 3	Spencer, N. C.
Sedwick, Benjamin Frank TC N 5	Baltimore, Md.
Seeley, Donn Elkington TC N 2	Scranton, Pa.
Seidner, Roger Benton TC N 3	Windermere, Fla.
Seneff, Smiley Howard TC N 3	Odon, Ind.
Setzer, Jack TC N 2	Council Bluffs, Iowa
Shanahan, John Rush TC N 6	Washington, D. C.
Shannon, Charles Melvin TC M 7	Mt. Jackson, Va.
Sharp, James Vance TC N 5	Reidsville, N. C.
Sharpe, Claude Earl TC N 3	Chappells, S. C.
Sharpe, Victor Vivian, Jr. TC C 2	Tampa, Fla.
Shaver, Thomas Edgar TC N 5	Goldsboro, N. C.
Shaw, Alexander von Skrobotof Cleves EC M 7	North Miami, Fla.
Shaw, John William TC N 4	Jacksonville, Fla.
Shaw, Richard Winfield TC N 1	Elgin, Ill.
Shaw, Walter Norman TC N 7	Penns Grove, N. J.
Shelton, Carl Brooks TC N 1	Williamson, W. Va.
Sheptow, Edward Richard EC C 5	Erie, Pa.
Sherman, Alfred Jay TC N 4	Harrisburg, Pa.
Sherman, Richard Philip TC C 3	Goldsboro, N. C.
Shillander, Richard TC N 3	Avalon, Calif.
Shindler, John Thomas TC N 5	Newburgh, Ind.
Sholes, Charles Wilbur TC N 3	Downey's Grove, Ill.
Shoup, Jack Reichart TC N 2	Lima, Ohio
Shugar, Gilbert Lee TC N 3	Tarboro, N. C.
Sibley, Donald Malcolm TC N 1	Dormont, Pa.
Sickbert, Irvin William TC N 2	Holland, Ind.
Sigmon, Algernon Festus, Jr. EC M 1	Hickory, N. C.
Siker, Ephraim Solomon TC C 3	Port Chester, N. Y.
Sikes, Joseph Alvin TC N 1	Dry Prong, La.
Siler, Gail Andrew TC N 1	Wyandotte, Mich.
Sill, Maurice Lucien TC N 1	Parkersburg, W. Va.
Silver, Norman Jay TC C 5	New York, N. Y.
Silverbach, Lee Elmer EC C 5	Paterson, N. J.
Simidian, Vahe TC C 2	Forest Hills, N. Y.
Simon, John B. TC N 5	Newark, N. J.
Simons, Harold David TC N 3	Columbia, S. C.
Simons, Henry Augustus TC N 3	Jamaica, N. Y.
Simons, Joseph Thomas TC N 4	Harvey, Ill.
Simpson, Zachary Arnold TC C 4	Charlotte, N. C.
Sims, Jim TC M 6	Birmingham, Ala.
Sims, John Boland TC M 5	Beaufort, S. C.
Skarstrom, John Halstein TC C 7	Brooklyn, N. Y.
Slaughter, Grimes Gibbons EC C 5	Rockingham, N. C.
Slider, Jack Wayne TC N 1	Paden City, W. Va.
Small, Herbert Wesley EC N 4	Charlotte, N. C.
Smatlik, Vincent TC N 1	Chicago, Ill.
Smith, Clarence Franklin, Jr. TC N 5	Louisville, Ky.
Smith, Chandler Sparkman TC N 9	Robersonville, N. C.
Smith, Curtis Cullen, Jr. TC M 3	Waco, Texas
Smith, Emory Angelo TC N 6	Raceland, Ky.
Smith, Edward Franklin TC C 7	Raleigh, N. C.
Smith, Frank Donald, Jr. TC N 1	Monroe, Va.
Smith, George Basil TC N 2	Winfield, Kan.

Smith, Harry Edward TC N 3	Maplewood, N. J.
Smith, Horace Greely, Jr. TC N 6	Charleston, S. C.
Smith, Howard Kenneth TC C 7	Winston-Salem, N. C.
Smith, James Daniel TC C 7	Rochester, N. Y.
Smith, Kenneth McLean TC N 2	Milwaukee, Wisc.
Smith, Marvin Theodore TC N 1	Lumberton, N. C.
Smith, Melvin Wilmer TC N 2	Edgewater, Md.
Smith, Raymond Alfred TC N 5	Mt. Airy, N. C.
Smith, Rex Elmer EC M 3	Ford City, Pa.
Smith, Robert MacLeod TC N 5	Wilmington, N. C.
Smith, Whitefoord, Jr. TC C 5	Charlotte, N. C.
Smith, William Arthur TC C 5	Camden, S. C.
Smith, William Harold EC M 3	Woodmont, Conn.
Smith, William Vincent TC N 1	Asheville, N. C.
Smurthwaite, Paul Malcolm, Jr. EC N 5	Coatesville, Pa.
Snedden, Richard Dean TC N 2	Granger, Iowa
Snelling, Richard Jackson, Jr. EC N 1	Dublin, Ga.
Snow, Kenneth Franklin TC C 6	Pine Point, Maine
Snow, Grover Perry EC N 7	Raleigh, N. C.
Snow, Robert Edward TC C 2	Amesbury, Mass.
Snyder, William Marion, Jr. TC N 3	Palmetto, Fla.
Soma, Milton Eugene TC N 2	Ames, Iowa
Somerville, John Henry TC N 5	Cumberland, Md.
Sorensen, William Newton TC N 2	Lincoln, Nebr.
Sousa, Joseph Arthur EC M 3	Wakefield, Mass.
Southard, Warren Roscoe TC N 2	Wichita, Kan.
Spandorfer, Lester Malvern EC M 4	Norfolk, Va.
Spann, Willis Lee TC N 3	Tampa, Okla.
Spargur, Lloyd Eugene TC N 2	Shenandoah, Iowa
Speer, Robert Maurice TC N 1	Colmar Manor, Md.
Sperandio, Joseph Lewis TC N 3	Glen Carbon, Ill.
Sperow, William Rodgers TC N 2	Nevada, Iowa
Spevak, Sam Morris EC M 3	Jacksonville, Fla.
Spillman, John Perry, Jr. TC C 1	Charlotte, N. C.
Spilman, Walter Mitchel TC M 7	Washington Grove, Md .
Spohn, Hal Clayton TC N 2	Kearney, Nebr.
Stackable, William Robert TC N 5	Chicago, Ill.
Stahler, Albert TC N 2	Scranton, Pa.
Stalhammer, Robert Carl TC N 3	Bridgeport, Conn.
Stall, Edward Holmes TC N 3	Greenville, S. C.
Stalvey, Delano Kelly, Jr. TC N 3	Conway, S. C.
Stancik, Edwin Edward TC M 3	Chicago, Ill.
Standish, Livingston Miles TC N 2	St. Petersburg, Fla.
Stanfield, Henry Lawrence TC N 2	St. Petersburg, Fla.
Stanley, Arleigh Childress TC N 3	Tyler, Texas
Stark, Alvin TC N 5	Baltimore, Md.
Starkey, Dean Conwell TC N 2	Kingman, Kan.
Starkey, Wayne Hampton TC N 1	Hampton, Va.
Staton, Marshall TC N 6	Wadesboro, N. C.
Steele, Albert Johnston EC N 5	Pittsburgh, Pa.
Steele, John William TC N 2	Marysville, Ohio
Stegman, Kenneth Francis TC N 3	Chicago, Ill.
Stein, James Richard TC C 5	Detroit, Mich.
Stein, Richard Paul TC N 3	New Albany, Ind.
Steinert, Lilbourn Neith TC N 2	Wichita, Kan.
Steinman, James Putnam TC M 4	Ursa, Ill.
Stepbach, Robert Frank, Jr. EC N 5	Binghamton, N. Y.
Stephens, Robert Russel TC N 2	Whitewater, Kan.
Stephens, Robert Woodward TC N 5	Gainesville, Fla.
Stephenson, Harold Patty EC C 2	Reidsville, N. C.

Sterret, Donald Hewett EC N 8	Philadelphia, Pa.
Stevenson, Edward Ward TC N 3	Craigsville, Va.
Stevenson, John Kerman TC N 1	Morrisville, N. C.
Stinson, James Albrecht TC N 1	St. Petersburg, Fla.
Stivers, Larry James TC N 2	De Moines, Iowa
Stockslager, Edwin Stevens, Jr. EC N 4	Westfield, N. J.
Stockstrom, Louis TC C 3	Clayton, Mo.
Stogsdill, Willis Wordsworth TC N 3	Bloomington, Ind.
Stone, Jack Mink TC M 3	Corbin, Ky.
Stone, Robert Lee, Jr. EC N 5	Durham, N. C.
Stone, Thomas William, Jr. TC M 5	Gallatin, Tenn.
Stonecipher, R. L. TC N 2	Haynesville, La.
Storey, Judd Robert TC N 2	De Kalb, Ill.
Storrs, Phil TC N 4	Cincinnati, Ohio
Stott, Warren Walter TC N 3	Yorktown, Va.
Stottlemeyer, Paul Clinton TC N 2	Hagerstown, Md.
Stoudenmire, Jehu Joseph TC M 7	Oswego, S. C.
Stover, William Page EC C 7	Charlotte, N. C.
Stow, James George TC N 7	Port Chester, N. Y.
Strahan, John Franklin TC N 3	Catonsville, Md.
Strain, Delbert Earl TC N 2	Aurora, Mo.
Street, Walter Newbill, Jr. TC N 3	Richmond, Va.
Stribling, Charles Sloan TC M 5	Habersham, Ga.
Strickman, Arthur Edwin TC N 5	Laurence, N. Y.
Stroupe, Connor Bartlette, Jr. EC N 4	Mt. Holly, N. C.
Stroupe, Robert Edwin EC N 7	High Point, N. C.
Stroupe, Thomas Clinton TC C 3	Charlotte, N. C.
Strzyzewski, Edward James TC N 2	Grand Rapids, Mich.
Stuart, John Bruce TC N 5	South Orange, N. J.
Stubbins, Robert Lacey TC N 1	Crisfield, Md.
Stull, Chester James, Jr. EC M 7	Roanoke, Va.
Styron, William Clark, Jr. TC M 5	Newport News, Va.
Sugg, Robert Whittington TC C 1	Durham, N. C.
Suggs, Jacob Leroy, Jr. EC N 7	Durham, N. C.
Suhling, Edward Colhoun EC M 5	Lynchburg, Va.
Sullivan, Emerson Flavel TC N 5	Hickory, N. C.
Sulzer, Richard Lee TC N 5	New York, N. Y.
Summer, Lloyd Langston TC N 3	Cherryville, N. C.
Summers, Howard Hasbrouck EC N 7	Norfolk, Va.
Sunderland, Ralph Kenneth TC N 3	Dearborn, Mo.
Sutton, John Marshall TC C 3	Russell, Ky.
Swaringer, Charles Tillett, Jr. EC N 5	Greensboro, N. C.
Sweeney, Francis Joseph TC N 5	Pottstown, Pa.
Swicegood, Roger Mason TC N 1	Summerville, S. C.
Swindell, Herbert Anderson EC N 7	Durham, N. C.
Sybert, Richard Ray TC N 1	Toledo, Ohio
Sydnor, Charles Sackett, Jr. TC C 1	Durham, N. C.
Sykes, Andrew Jardine TC M 2	Chicago, Ill.
Tailer, Peter Lorillard EC C 4	Norfolk, Va.
Tally, David Kenneth Taylor TC N 5	Fayetteville, N. C.
Talton, Richard Cullen TC N 2	Daytona Beach, Fla.
Tanner, Stephen Odell TC N 4	Minneapolis, Minn.
Taplin, Winn Lowell EC M 3	Bennington, Vt.
Tapper, John David TC M 3	Evanston, Ill.
Tate, Joseph Ishmael TC M 5	Lexington, N. C.
Tavernier, Harold TC N 2	Plandome, N. Y.
Taylor, Carl Edward TC M 5	Black Mountain, N. C.
Taylor, Carson Elroy TC CG 2	Nashville, Tenn.
Taylor, Marlin R. TC N 3	Independence, Kan.
Taylor, Roger Kirkbride, Jr. TC N 2	Baltimore, Md.

Taylor, Yancey Manning TC N 3	Mountain Home, Tenn.
Teabeaut, James Robert, Jr. TC * Spec.	Fayetteville, N. C.
Teabeaut, Thomas Allen EC C 3	Fayetteville, N. C.
Templeton, James Huie TC N 1	Union Grove, N. C.
Terry, Charles Strong TC C 5	Laurel, Miss.
Testerman, Adrian Leger TC M 7	Rogersville, Tenn.
Tewksbury, John Sargent EC M 3	Watertown, Mass.
Thiel, Robert Besant TC N 5	Kearney, N. J.
Thomas, Frank Almerine EC M 4	Uniontown, Ala.
Thomas, Orville Ray TC M 7	Charleston, W. Va.
Thomas, Paul Bert TC N 1	Bellmore, N. Y.
Thomas Ralph Leslie TC N 1	Tampa, Fla.
Thomas, Robert Joe TC M 3	Augusta, Ga.
Thomas, Robert Lee TC N 1	Point Pleastant, W. Va.
Thompson, Charles Welland TC M 3	Daytona Beach, Fla.
Thompson, Donald Reece TC N 2	Kingsport, Tenn.
Thompson, James Gilliam EC N 4	Greensboro, N. C.
Thompson, Joseph Walter TC N 1	Kermit, W. Va.
Thompson, Julian Edward TC N 3	Cowden, Ill.
Thompson, Lawrence Charles TC M 3	Derby, Vt.
Thompson, Oscar Mills EC N 5	Rockingham, N. C.
Thompson, Walter Lowry TC N 4	Bellevue, Pa.
Thompson, William Donald TC N 5	Akron, Ohio
Thompson, William Wallace EC N 1	Charleston, S. C.
Thompson, William Wardlaw TC M 3	Virginia Beach, Va.
Thomson, George Bell TC C 8	Crowley, La.
Thorfinnson, Stanley Theodore TC N 2	Lincoln, Nebr.
Thorsen, Elmer John TC N 2	Arlington Heights, Ill.
Thorup, Kent Davis TC M 3	Chevy Chase, Md.
Thrower, Wendell Burton TC C 3	Ridgeville, S. C.
Tiberio, Henry Richard TC N 3	Molden, Mass.
Tichenor, Charles Beckham TC N 3	Indianapolis, Ind.
Tiderman, Otto Darby TC N 2	Muncie, Kan.
Tierno, Anthony Joseph TC N 3	Brooklyn, N. Y.
Tilden, Theodore Burton, Jr. TC M 3	Glen Ellyn, Ill.
Tilson, Melvin Blalock, Jr. TC M 7	Asheville, N. C.
Timm, Edwin John TC N 8	Cedar Rapids, Iowa
Timpone, Peter Joseph TC N 5	Staten Island, N. Y.
Tinsley, James Weller TC N 2	Huntington, W. Va.
Tisdale, John Byron TC M 7	Crestview, Fla.
Tissot, Robert Halsey TC C 2	New Rochelle, N. Y.
Titman, Theodore David TC N 2	Baltimore, Md.
Tolle, Howard Kennard TC N 2	Dayton, Ohio
Tomlinson, Harry Lee TC N 1	Huntington, W. Va.
Tompkins, James Kenneth TC C 7	Johnson City, N. Y.
Tompkins, William Ritchie TC C 1	Richmond, Va.
Toomey, Thomas Murray TC M 6	Washington, D. C.
Tope, Donald Robert EC C 6	Burgettstown, Pa.
Torgerson, Torger Edward TC N 2	Duluth, Minn.
Torkildsen, Robert Allan TC N 1	Huntington, N. Y.
Torrey, Jay Kenneth TC M 3	Wilmette, Ill.
Trapani, Umberto Luigi EC M 7	Savannah, Ga.
Trexel, Charles Austin TC N 1	Baltimore, Md.
Trimble, Lee Shackleford, Jr. TC M 7	Macon, Ga.
Trollinger, Joseph Lindsey TC N 5	Charlotte, N. C.
Trovato, Raymond Robert TC N 5	Larchmont, N. Y.
Tubbs, Henry Willard, Jr. TC M 3	Monmouth, Ill.
Tucker, James Arnold TC N 3	Winterset, Iowa
Tully, William Franklin TC N 1	Charleston, W. Va.

* In Duke Medical School.

Turner, Clifford Mack TC M 5	Coburn, Va.
Turner, Heywood Axtell TC N 1	Tampa, Fla.
Turner, James Homer TC N 7	Tampa, Fla.
Turner, Kenneth Moten TC N 5	Durham, N. C.
Turpin, Charles Albert TC M 3	Rome, Ga.
Tuttle, James Gray TC C 5	Raleigh, N. C.
Tuttle, Roger Dinsmore TC N 5	West Palm Beach, Fla.
Tyner, Raymond Ellis TC M 7	Danielsville, Ga.
Uhl, Joseph Louis TC N 2	Columbus, Ohio
Uhl, Richard Duryea EC N 5	Glenside, Pa.
Upchurch, Thomas Christian EC C 1	Durham, N. C.
Unruh, James Walker TC N 1	Richmond, Va.
Upshaw, James Claud TC N 7	Coral Gables, Fla.
Van Camp, George David EC C 3	Southern Pines, N. C.
Van Clief, John Richard TC N 2	Winterhaven, Fla.
Van Eepoel, Robert Peter EC C 4	Tampa, Fla.
Van Leer, Blake Wayne EC N 6	Washington, D. C.
Van Leer, Ira Isaac TC M 5	New York, N. Y.
Van Schoik, Dickson Moore TC N 2	Columbus, Ohio
Varner, Leonard William, Jr. TC N 3	Holly Hill, S. C.
Vaughan, Clement Slusher TC M 7	Floyd, Va.
Vegliante, Neal John TC N 5	Hamden, Conn.
Vehe, Robert Richard TC N 9	Chicago, Ill.
Venable, Samuel Woodson EC C 7	Durham, N. C.
Verlander, Joseph Michael TC N 1	Richmond, Va.
Vickers, Lawrence Otis TC C 3	Miami, Fla.
Vildibill, James William, Jr. TC N 5	Columbia, S. C.
Villanueva, Charles Edward TC N 3	Orange, N. J.
Voegeli, Warren George TC N 3	St. Petersburg, Fla.
Vogel, John Edwin, Jr. TC N 2	Chicago, Ill.
Vogel, John Leslie TC C 1	Louisville, Ky.
Vorhes, Carl Edwin TC N 2	Marshalltown, Iowa
Wade, Gerald Wear EC M 7	Birmingham, Ala.
Wade, Henry Ormond TC N 3	Morehead City, N. C.
Wadsworth, John Henry, Jr. TC N 1	Montgomery, Ala.
Waggoner, Lonnie Austin, Jr. TC N 5	Charlotte, N. C.
Wagner, Arthur Wallace TC N 3	Belleville, Ill.
Wagner, Michael Joseph TC N 2	Baltimore, Md.
Waide, Merrill, Jr. EC M 7	Miami, Fla.
Walker, Cecil George TC N 2	Lincoln, Nebr.
Walker, Gordon Rexal EC N 4	Spindale, N. C.
Walker, I. C., Jr. TC C 5	Woodlawn, Ga.
Walker, John Garrett TC N 3	Marion, Va.
Walker, Robert Gentry TC CG 5	Tuttle, Okla.
Walker, Thomas Jefferson TC M 2	Coronado, Calif.
Wall, Fletcher H. TC N 5	Lexington, N. C.
Wallace, John Dixon TC C 2	Charlotte, N. C.
Wallis, Donald TC C 2	Morrisville, Pa.
Walpole, Fred Cornelius TC N 3	Atwood, Pa.
Walter, Robert Wheaton TC M 5	Port Washington, N. Y.
Walters, Robert George TC N 2	Chicago, Ill.
Wansker, Bernard Arthur TC C 3	Macon, Ga.
Ward, Frank Fordham TC N 4	Montclair, N. J.
Ward, John Amburn EC C 2	Walkertown, N. C.
Warf, Lee Welton TC N 1	Salmon, Id.
Warner, John Edwin TC N 2	Cape Charles, Va.
Warner, Tim Goode TC C 3	Greensboro, N. C.
Warren, Errol Jordan TC N 1	Rocky Mount, N. C.
Warren, James Gates TC M 7	Washington, D. C.
Warren, Joseph Benjamin TC N 4	Lenoir, N. C.

Warren, Max Gerald TC C 8	Raleigh, N. C.
Warren, Nathaniel Thornton TC N 2	Richmond, Va.
Washer, Robert Ralph TC C 5	Scranton, Pa.
Waters, Joe Frazier TC N 5	Johnstown, Pa.
Watkins, James Sutton, Jr. TC N 5	Forsyth, Ga.
Watson, Frank Yandle TC N 3	Charlotte, N. C.
Watson, George Wesley TC N 3	Lincoln, Nebr.
Watson, James Edward TC N 1	Augusta, Kan.
Watson, Lucien Whitehead TC M 4	Marianna, Fla.
Watson, William Wood TC N 5	Eastham, Mass.
Watt, William Vance TC N 6	Thomasville, Ga.
Watts, Robert Johnson TC N 5	Louisville, Ky.
Way, Charles Burr TC C 1	Waynesville, N. C.
Weatherly, Carl Holmes TC C 3	Leaksville, N. C.
Weatherly, Joe Elwood TC N 5	Elizabeth City, N. C.
Weathers, Jimmie Lee TC C 2	Shelby, N. C.
Weaver, Gilbert Earle TC M 5	Statesville, N. C.
Weaver, Robert Lee TC N 5	Drexel Hill, Pa.
Weber, Richard Alexander TC N 3	Lyndhurst, N. J.
Wechsler, Leonard Burton TC C 3	McKeesport, Pa.
Weddington, Robert Lee TC N 2	Charlotte, N. C.
Weeks, Joe Richard TC N 4	Clarksdale, Miss.
Weeks, Rufus Heywood TC N 5	Charlotte, N. C.
Welch, Elbert Sylvester TC N 4	Bessemer, Ala.
Wells, David Allen TC N 5	Hapeville, Ga.
Wells, John David TC N 2	Elmdale, Kan.
Wells, Richard Parkinson TC N 3	W. Orange, N. J.
Wells, William Charles TC N 3	Delanco, N. J.
Wells, William Eston, Jr. TC N 2	St. Petersburg, Fla.
Wells, William Miles, Jr. TC C 5	Wilson, N. C.
West, James Arthur TC N 5	Wilmington, N. C.
Westphall, Howard Arden TC M 3	Woodstock, Ill.
Wheatley, William Howard TC N 3	Chestertown, Md.
Wheeler, John TC N 5	Ridgewood, N. J.
Whisnant, Louis Rodney TC M 5	Lenoir, N. C.
Whitaker, Thomas Early TC C 7	Oak Ridge, N. C.
White, Glenn Marshall TC N 3	Bristow, Okla
White, Francis Earl TC M 7	Orlando, Fla.
White, John Joseph, Jr. TC M 7	New Orleans, La.
White, John Mercer TC N 4	Richmond, Va.
Whitlock, James Dale TC N 2	Dallas, Texas
Whitney, John Butler TC M 3	Quantico, Va.
Whitney, William Raymond TC M 7	Arlington, Va.
Whitson, James Anthony TC N 3	Chester, Ill.
Whyte, Donald Leslie TC N 5	Princeton, N. J.
Wicker, Max William TC N 2	Aberdeen, N. C.
Wickstrom, Ralph Lee TC N 2	Sioux City, Iowa
Widerman, William Davis EC N 7	Haddonfield, N. J.
Wilbur, Charles Roger EC N 2	Durham, N. C.
Wilbur, Robert Lynch TC C 2	Durham, N. C.
Wile, Peter Edwin TC N 5	New York, N. Y.
Wilkie, David Blaine TC N 2	Manchester, Conn.
Wilkins, Clyde, Jr. TC M 3	Atlanta, Ga.
Wilkins, Howard Coles TC N 6	Pine Bluff, Ark.
Wilkinson, Buddy LaVerne TC N 3	Clinton, Ill.
Wilkinson, Kenneth Lee EC N 6	Pocomoke City, Md.
Willett, Robert Walter TC N 4	New York, N. Y.
Williams, Arthur Joseph TC N 2	Washington, D. C.
Williams, Claude Bernard, Jr. EC N 8	Durham, N. C.
Williams, Daniel McGregor EC C 1	Durham, N. C.

Williams, Deyo Joseph TC M 6	Jacksonville, Fla.
Williams, Earlwood Robbins TC N 1	Norfolk, Va.
Williams, Eugene Ward TC N 2	Cincinnati, Ohio
Williams, Edgar Donald, Jr. EC N 5	Durham, N. C.
Williams, Jack Newton TC C 2	Charlotte, N. C.
Williams James Daniel TC M 7	Dacusville, S. C.
Williams, James Oscar TC N 3	Mullins, S. C.
Williams, John Kerr EC N 7	Charlotte, N. C.
Williams, Lomax Bryant TC N 1	Greenville, Ala.
Williams, Paul Francis TC N 2	Tampa, Fla.
Williams, Reid Claude TC N 6	Fallston, N. C.
Williams, Richard Charles TC N 3	Oklahoma City, Okla.
Williams, Roy Samp, Jr. TC N 5	Miami, Fla.
Williams, Si Julian, Jr. EC M 6	Evanston, Ill.
Williams, Wade Hampton TC N 5	Charlotte, N. C.
Williams, William Swinney EC M 5	Lynchburg, Va.
Williamson, Cecil Floyd TC N 2	Cerro Gordo, N. C.
Williamson, Daniel Lester, Jr. TC N 2	Wilmington, N. C.
Williamson, John Samuel TC M 4	Hamlet, N. C.
Williamson, Max LaVern TC N 2	Creston, Iowa
Willing, George Clifford TC N 2	Harvey, Ill.
Willis, Joseph William EC N 5	Ft. Lauderdale, Fla.
Willis, Robert Kyle, Jr. TC N 2	Phoebus, Va.
Willis, Sanford Martin TC N 1	North Bennington, Vt.
Willoughby, Robert Earl TC C 6	Detroit, Mich.
Wills, Rex, II TC N 3	Hilo, Hawaii
Wilson, Charles Frederick TC N 3	Florence, Ala.
Wilson, Jack Leonard TC N 3	Perry, Okla.
Wilson, James Ernest TC N 2	Cumberland, Md.
Wilson, Joseph Richard Hoyle EC N 4	Atlanta, Ga.
Wimbrow, Charles Samuel TC N 5	Bridgeville, Del.
Windberry, Herman Stanford TC C 7	Mt. Olive, N. C.
Windham, Theron Johnson TC N 5	Columbus, Ga.
Winfield, Robert Allen TC N 5	Fort Wayne, Ind.
Wingfield, Robert Terrell TC N 5	Lynchburg, Va.
Wintner, Stuart A. TC N 5	Shaker Heights, Ohio
Wismer, Richard Cummings TC N 2	Benedict, Nebr.
Witsch, John Frederick TC C 1	Philadelphia, Pa.
Witzel, Henry Fred TC M 5	Maplewood, N. J.
Wofford, J. Brian TC N 2	Spartanburg, S. C.
Wolfe, Daniel Howard, Jr. TC M 5	Charlotte, N. C.
Wolfe, Joseph Garland TC M 5	Greensboro, N. C.
Wolfe, William Raymond TC N 5	Verona, Pa.
Wolff, Robert Stanley TC N 5	Rhodesdale, Md.
Wolff, Thomas Conrad TC N 6	Baltimore, Md.
Wood, Chester Clement TC N 3	Bridgewater, Mass.
Wood, Clarence Robert, Jr. EC C 5	Durham, N. C.
Wood, George Wilburn EC M 5	Overland, Mo.
Wood, James Edwin TC N 5	Charlottesville, Va.
Wood, James Robert TC N 5	Norfolk, Va.
Wood, Paul Andrew EC M 3	Gary, Ind.
Woodall, Charles Marion TC M 7	Moultrie, Ga.
Woodall, Jake Augustus TC N 3	Durham, N. C.
Woodbridge, E. Byron TC N 5	Tamaqua, Pa.
Woodrow, Gerald James TC N 3	Chicago, Ill.
Woodruff, John Graham EC C 5	Winston-Salem, N. C.
Woodward, Willys Lee TC N 2	Fulton, N. Y.
Wooley, Philip Monroe EC N 2	Southern Pines, N. C.
Worster, Lyle Henry TC M 2	Gardner, Maine
Wright, Clyde Leonard TC N 1	Richmond, Va.

Wright, William Albert, Jr. TC C 3	Youngstown, Ohio
Wright, William Hobart, Jr. TC M 7	Knoxville, Tenn.
Yancey, Clyde Campbell TC C 3	Greensboro, N. C.
Yantis, Earl Edward TC N 7	Atlanta, Ga.
Yard, Chester Arthur, Jr. TC N 5	Webster Groves, Mo.
Yautz, George Steven EC N 7	New York, N. Y.
Yegge, Lawrence Raymond TC N 2	Boone, Iowa
Yochum, Joseph Karl TC N 2	Sinking Spring, Pa.
York, Charles Irving TC N 2	Washington, D. C.
Young, Julius Osborne, Jr. TC M 5	Winston-Salem, N. C.
Young, William Glenn, Jr. TC N 5	Washington, D. C.
Young, William Lowell TC N 3	Frederick, Md.
Younger, Edward Francis, Jr. TC N 1	Severn, Md.
Yount, Arthur White TC C 3	Statesville, N. C.
Yount, Paul Wesley TC N 3	Charlotte, N. C.
Zachary, William Clarence, Jr. TC M 3	Macon, Ga.
Zakrzewski, Thomas Francis TC N 2	Buffalo, N. Y.
Zarracina, Allan Americus, Jr. EC M 4	Cherry Point, N. C.
Zega, Lester Walter TC N 5	Plainfield, N. J.
Zellmer, Milton Robert TC N 2	Chicago, Ill.
Zemer, Robert Field TC N 5	Highland Park, Mich.
Ziegler, Cleo Taylor TC M 7	Bigspring, Tenn.
Zimmerman, Jacob Shelly TC N 4	Marshall, N. C.
Zion, Robert William EC M 7	Philadelphia, Pa.
Zitomer, Joseph TC N 2	Washington, D. C.
Zoeller, Robert Royce EC M 3	Milwaukee, Wisc.
Zultner, Richard Ernst TC N 2	Chicago, Ill.
Zumberge, James Herbert TC M 5	Minneapolis, Minn.

November 1, 1943-February 24, 1944

TC indicates Trinity College and EC College of Engineering. Letters denote classification: C, Civilian; N, Navy; M, Marine; CG, Coast Guard. Number shows semester in progress.

Abramson, Richard Arlen TC C 2	New York, N. Y.
Acherman, Walter Lane TC N 2	Washington, D. C.
Adams, Gilreath Gilderoy, Jr. TC C 5	Charlotte, N. C.
Adams, John Clark TC N 1	Washington, Va.
Adams, John M. EC M 7	McKenzie, Tenn.
Adams, Thornton Dixon TC C 1	Carthage, N. C.
Adams, William Hester, III TC C 2	Atlantic Beach, Fla.
Adamson, Jack Everett TC N 2	South Pasadena, Calif.
Adrain, J. Hoy TC C 1	Lorain, Ohio
Aitken, Theodore Bird EC N 7	Wyndmoor, Pa.
Albrecht, Glen Tasker TC N 1	Washington, D. C.
Alexander, Henry Clifford TC C 2	Charlotte, N. C.
Alexander, Johnny Frank TC C 7	Meridian, Miss.
Alexander, Roy L. TC N 3	Englewood, N. J.
Alexander, William Coburn EC N 4	Durham, N. C.
Allder, James Gordon TC N 2	Fairfax, Va.
Allen, Bouva Closson, Jr. TC N 2	Raleigh, N. C.
Allen, Louis Carr, Jr. TC N 4	Burlington, N. C.
Allen, Spencer Turner TC N 4	Milton, Fla.
Allen, Ulric Earl, Jr. EC N 6	Portsmouth, Va.
Allman, Russell Vernon TC N 8	Detroit, Mich.
Allsopp, Richard Howard TC N 6	Lakeland, Fla.
Alperin, Alfred Maurice EC N 6	Memphis, Tenn.
Alpert, Eugene O. TC C 3	Brooklyn, N. Y.
Ambrose, Kenneth Eugene TC N 2	Oblong, Ill.
Ambrose, Robert Brown TC N 6	Woodstock, Va.

Andersen, Edward Walter TC M 6	Arlington, Va.
Anderson, John Powell TC C 2	Lynchburg, Va.
Anderson, Richard Albin TC N 1	Chicago, Ill.
Anderson, Robert Alvin TC N 4	Proud, Utah
Andrachek, George TC N 1	Monessen, Pa.
Andres, Norbert Eugene, Jr. TC N 1	Buffalo, N. Y.
Andrews, George Reid TC C 8	Mt. Gilead, N. C.
Andrews, Richard Selby EC N 6	New Haven, Conn.
Angier, Newton Duke TC C 3	Durham, N. C.
Annand, Robert Innes TC N 1	Hackessin, Del.
Anthony, Edwin Leon EC N 4	Binghamton, N. Y.
Appleby, William Robert TC M 2	Dallas, Texas
Applegate, Alfred Jackson TC C 3	Clifton, N. J.
Arford, James Albert TC N 2	Stone Lake, Wis.
Armstrong, Elijah Durham, Jr. TC N 2	Beckley, W. Va.
Armstrong, Howard Gene TC N 2	Washington, D. C.
Armstrong, Robert Allen TC N 4	Morgantown, W. Va.
Armstrong, Thomas Christian, Jr. TC M 4	Richmond, Va.
Arnest, Richard Turberville, Jr. TC N 4	Oldhams, Va.
Arnold, James Davis EC M 7	Hattiesburg, Miss.
Arnold, James Schoonover TC C 4	Chicago, Ill.
Arnold, Reginald Seymour EC M 2	Wasonoco, Mass.
Arrowsmith, Dirck Walton TC N 4	Atlanta, Ga.
Artley, James Meredith EC M 4	Savannah, Ga.
Ashby, Rufus TC N 4	Durham, N. C.
Ashmore, Frank Leon TC N 2	Greenville, S. C.
Asplund, Dellmar Clarence TC N 1	Rockford, Ill.
Atkins, Robert Myrick TC N 3	Paragould, Ark.
Atkinson, Kendall Stewart, Jr. TC M 6	Roanoke, Va.
Aukward, Joseph Aloysius EC N 7	Washington, D. C.
Aycock, Thomas Crockett, Jr. TC C 1	Washington, D. C.
Aycock, Thomas Malcolm, Jr. TC N 2	Durham, N. C.
Ayres, William McNeill EC M 8	Memphis, Tenn.
Baer, Harry Robert EC N 4	Youngstown, Ohio
Bailey, Thomas Liggett, Jr. TC N 6	Lake Worth, Fla.
Bailey, William Elroy TC N 4	Chadbourn, N. C.
Bailey, William Francis TC M 6	Knoxville, Tenn.
Baka, George Josef TC N 1	Lima, Ohio
Balitsaris, George Peter TC M 4	Pittsburgh, Pa.
Ball, James Herbert TC N 3	Winston-Salem, N. C.
Ballard, Charles Kale TC M 6	Mt. Holly, N. C.
Barber, Henry Ford TC N 1	Middleburgh, N. Y.
Barbour, Arthur Alexander, Jr. TC N 2	Arlington, Va.
Barden, Graham Arthur Jr. TC N 6	New Bern, N. C.
Barger, Charles Thomas, Jr. TC N 1	Charlotte, N. C.
Barger, James Willard TC CG 2	Graysville, Tenn.
Barnes, David Arlie TC N 2	Rochester, Minn.
Barnes, George William EC M 2	Petersham, Mass.
Barnes, Jimmy Allan TC N 2	Kings Mt., N. C.
Barnes, Martin Luther, Jr. TC M 6	Gastonia, N. C.
Barnes, Olin Beall, Jr. TC M 7	Birmingham, Ala.
Barnette, John Henry EC M 6	Selma, Ala.
Barr, Charles Lee TC N 2	Glen Ellyn, Ill.
Barra, Peter Phillip TC M 2	Boston, Mass.
Barrett, Marshall Adrian TC N 6	Glen Ridge, N. J.
Barringer, Harold Ross EC N 1	Concord, N. C.
Bartlett, Carroll Williams EC N 1	Baltimore, Md.
Bartlett, William Herman EC C 4	Charlotte, N. C.
Barton, Taylor Jefferson TC M 3	San Angelo, Texas

Bates, Norman Joseph TC N 1	Risingsun, Ohio
Baum, Edwin Foster TC C 2	Danville, Va.
Bayman, Charles Richard EC N 6	North Charleston, S. C.
Beale, Walter H., Jr. EC M 6	Potecasi, N. C.
Beall, Curtis Alton TC M 8	Brewton, Ga.
Beam, Jay Ky EC N 1	Beaufort, N. C.
Beaman, Nathaniel, III TC N 3	Norfolk, Va.
Beaman, Robert Prentis, Jr. TC N 4	Norfolk, Va.
Beamer, Elbert Ernest TC C 8	Mt. Airy, N. C.
Bean, William Randall TC C 2	Marshfield, Mass.
Beasley, James Franklin TC C 1	Vass, N. C.
Beatty, John Joseph TC N 5	Washington, D. C.
Beauchamp, John Hurst, Jr. TC N 5	Parma, Cleveland, Ohio
Beaudouin, Harry Edward TC N 4	Hewlett, N. Y.
Bebell, Charles Jacob EC N 4	Toronto, Canada
Becker, Irwin William EC M 2	Burlington, Vt.
Becker, William Frederick EC N 3	Nutley, N. J.
Beddingfield, Richard Jackson TC N 4	Manhassett, N. Y.
Bedford, Robert Chester TC N 1	Chicago, Ill.
Beer, George Nicholas EC N 8	Rochester, N. Y.
Belk, Henderson TC N 4	Charlotte, N. C.
Bell, William Seaman TC C 6	Jersey City, N. J.
Bellocchio, Emil William TC N 1	Brooklyn, N. Y.
Benedetti, Francis Anthony TC N 1	Richmond, Va.
Bennett, Clyde Edward TC N 1	Upper Sandusky, Ohio
Bennett, Edgar Bowling EC N 4	Richmond, Va.
Benskin, George Henry, Jr. EC M 4	Quantico, Va.
Benson, Rupert Lee, Jr. TC C 2	Wrightsville Beach, N. C.
Bentley, Walter John TC N 6	Bement, Ill.
Beres, Herbert TC C 4	Lynbrook, N. Y.
Berngard, Lawrence Jay TC N 4	Chicago, Ill.
Bertke, Robert William TC N 1	Cincinnati, Ohio
Betts, Wilmer Conrad TC N 3	Raleigh, N. C.
Biggs, Dennis Walter, Jr. TC N 2	Lumberton, N. C.
Billingslea, Robert Kerr, Jr. TC M 6	Westminster, Md.
Binda, Herbert Joseph, Jr. TC M 2	Medford, Mass.
Bisceglia, Joseph Gregory TC N 7	Harrison, N. Y.
Bishopric, George Andrew TC C 2	Spray, N. C.
Black, David Coley TC C 1	Durham, N. C.
Black, William Mock EC N 8	Durham, N. C.
Blake, John Ronald, Jr. TC C 2	Washington, D. C.
Blalock, John Vernon TC C 8	Durham, N. C.
Blanchard, Charles Fuller TC N 6	Raleigh, N. C.
Blanchard, William Garland EC C 4	Hertford, N. C.
Blanton, Stewart Bennett EC N 3	Charlotte, N. C.
Bledsoe, Eugene Franklin, Jr. TC M 7	Memphis, Tenn.
Bliss, Francis O'Donovan, Jr. TC N 1	Dickerson, Md.
Bliss, Verne Fairbanks TC M 6	Salem, Va.
Block, Mervin Judah TC N 4	Chicago, Ill.
Bloom, Henry Tucker TC M 8	Camden, N. J.
Bodtke, Roland Henry TC N 2	Richmond, Va.
Boehling, William Anthony TC C 1	Richmond, Va.
Boggs, Lawrence Kennedy TC N 3	Birmingham, Ala.
Bond, Jean Bernerd TC C 8	Durham, N. C.
Bond, William McCambridge TC N 6	Washington, D. C.
Boone, Joseph Brewer TC M 1	Columbus, Ga.
Boone, Thomas Hood TC C 1	Washington, D. C.
Booth, Richard Gene TC C 4	Welch, W. Va.
Borbely, James Andrew TC M 6	New Brunswick, N. J.

Boston, John Armistead TC N 4	Atlanta, Ga.
Bostrom, Everett TC N 5	St. Louis, Mo.
Bounds, Jack Darwin TC N 6	Knoxville, Tenn.
Bowden, George E. TC C 3	Norfolk, Va.
Bowen, Harold West TC M 6	Salisbury, N. C.
Bowen, James Lamar TC C 2	Westminster, S. C.
Bowen, Ward Beryl TC C 5	Almond, N. Y.
Bowman, Robert Calvin TC N 1	Park Ridge, Ill.
Boy, James William EC C 2	Durham, N. C.
Boyd, Benjamin Franklin TC C 4	Panama City, Panama
Boyles, Paul Weldon TC C 4	Gibsonville, N. C.
Bracey, Earl Watkins TC N 1	La Crosse, Va.
Bradshaw, James Martin EC M 7	Montgomery, Ala.
Brady, Donald E. TC N 3	Peoria, Ill.
Brady, Richard Dorton, Jr. TC M 6	Crossville, Tenn.
Brancaccio, Frank TC N 1	Chicago, Ill.
Brandon, Guilbert LePage EC C 6	Memphis, Tenn.
Brandt, Murray Denis TC M 8	Brooklyn, N. Y.
Branfield, Earl Wayne TC N 5	Alliance, Ohio
Brannan, George King TC N 6	Washington, D. C.
Branscomb, Lewis McAdory TC C 3	Durham, N. C.
Brashear, Thomas Edward TC N 1	Cameron, Texas
Braswell, Charles Clarence EC C 4	Durham, N. C.
Bratton, John, Jr. EC M 8	Raleigh, N. C.
Brawner, Hugh Page TC C 2	Washington, D. C.
Breckenridge, Homer Elmer TC C 1	Ludowice, Ga.
Brengle, George Robert TC C 5	Washington, D. C.
Brewer, Norman Everett TC N 2	Pomona, N. C.
Bridge, John Homer EC N 1	St. Petersburg, Fla.
Briggs, Ronald Urton TC N 4	Dayton, Ohio
Bright, Turner Newton TC N 4	Bardstown, Ky.
Brillhart, Robert Ross TC M 6	Napoleon, Ohio
Brinkley, William Lambreth, Jr. TC C 5	Greensboro, N. C.
Bristow, Elmer Linwood, Jr. TC M 6	Petersburg, Va.
Brittingham, John, Jr. TC N 2	Victoria, Va.
Broadfield, Ward Holt, Jr. EC N 4	Cartersville, Ga.
Brock, Charles Lee TC N 6	Asheville, N. C.
Brockway, George Lemuel, Jr. EC N 6	Cherry Point, N. C.
Brockwell, Roy Herbert TC N 2	Abilene, Texas
Brogan, Edwin Bernard TC C 8	Atlanta, Ga.
Bronson, Richard Avann TC C 1	Coral Gables, Fla.
Brooks, Charles M. TC C 6	Portland, Maine
Brooks, Edward Harrington, Jr. TC C 1	Portsmouth, Va.
Brooks, Jack Martin EC N 4	Hilton Village, Va.
Brooks, Keith TC N 2	New Castle, Pa.
Brooksbank, James Jeffery TC N 2	Washington, D. C.
Brorein, William Jacob EC N 6	Tampa, Fla.
Broughton, Joseph Melville, Jr. TC M 8	Raleigh, N. C.
Broughton, Walter Thomas TC N 4	Mt. Holly, N. C.
Browder, Joseph Garrott EC N 4	Charlotte, N. C.
Brown, Allan TC N 4	Chicago, Ill.
Brown, Henry LeRoy TC N 1	Great Falls, S. C.
Brown, J. Colvin TC C 2	Waynesville, N. C.
Brown, Lee Buckingham TC N 4	Norfolk, Va.
Brown, Walter Lyons TC N 4	Charlottesville, Va.
Browning, James Richardson TC C 2	Whiteville, N. C.
Browning, James Robert TC N 6	Windber, Pa.
Bruce, James McDuffie TC M 8	Greenville, S. C.
Bryan, William Joe TC N 2	Rockford, Ill.
Bryans, Robert Lee, II TC C 2	Pensacola, Fla.

Buchanan, Fitzhugh Lee, Jr. TC M 2	Portsmouth, Va.
Buchanan, William John TC N 1	Brooklyn, N. Y.
Buckheit, Theodore Otto TC N 1	Ozone Park, N. Y.
Buckle, James Robert TC M 8	Binghamton, N. Y.
Buckley, Allen Ferguson TC N 6	Columbia, S. C.
Buckley, Donald Bright TC N 4	Washington, D. C.
Bullington, Norwood William, Jr. EC C 1	South Boston, Va.
Burg, James Donald TC N 1	Hamilton, Ohio
Burke, Edward Walter, Jr. EC M 2	Lynn, Mass.
Burkhouse, Ralph Eugene, Jr. TC N 2	Pittsburgh, Pa.
Burlew, Robert Wesley TC C 5	Matawan, N. J.
Burnett, Oliver Rutherford, Jr. TC N 1	Paducah, Ky.
Bursian, Tirso C. TC C 2	Santurce, Puerto Rico
Burton, John Ray EC M 3	Richmond, Va.
Bush, Albert Jackson TC M 4	Jacksonville, Fla.
Butler, James Elmo TC N 1	Bluefield, W. Va.
Butler, William Powers TC N 4	Washington, D. C.
Butler, William Stanton TC N 4	Little Neck, N. Y.
Buzzard, Robert Francis TC C 1	Haddonfield, N. J.
Byrd, John William TC N 9	Columbia, S. C.
Byrne, Hugh David TC M 6	Chicago, Ill.
Caldwell, Lawrence Carlton, Jr. EC C 2	Richmond, Va.
Caleo, Leon Joseph TC M 4	Norfolk, Va.
Calhoun, Clinton Warren EC N 8	Richmond, Va.
Callahan, Daniel John, Jr. TC N 6	Concord, Mass.
Callaway, Richard Fuller EC M 8	Henderson, N. C.
Calos, Gust Efstratios TC M 4	Danville, Va.
Calvert, George Edward TC N 8	Lynchburg, Va.
Cameron, Angus McKay TC C 2	Vass, N. C.
Cammack, Allen Berriman TC C 1	Burlington, N. C.
Campbell, Alton Gailey TC N 9	Raleigh, N. C.
Campbell, Charles Haywood TC N 1	Sanford, N. C.
Campbell, Claude Waldrue TC N 4	Durham, N. C.
Campbell, William Eason TC M 6	Coral Gables, Fla.
Canady, Lloyd Edward, Jr. TC C 2	Raleigh, N. C.
Cannon, James Edmerson EC N 4	Gainesville, Fla.
Capps, John Albert EC M 5	Jackson, Miss.
Carguil, Robert Donald TC N 2	Brooklyn, N. Y.
Carlton, Everette Leroy TC M 6	Winston-Salem, N. C.
Carmichael, Clifford EC N 4	Clifton, N. Y.
Carosi, Nicholas John TC N 4	Washington, D. C.
Carpenter, Robert Murray EC N 4	Hagerstown, Md.
Carroll, Charles Fisher, Jr. TC N 1	High Point, N. C.
Carroll, Kenneth Lane TC C 3	Easton, Md.
Carroll, Stephen Wall TC N 4	Paterson, N. J.
Carroll, Thomas Richard TC N 1	Middletown, Ohio
Carson, Jack Frederick TC N 1	Columbus, Ohio
Carson, Jack Oliver TC C 2	Bethel, N. C.
Carson, John Spencer TC M 4	Richmond, Va.
Carter, Derb Stancil TC N 5	Fayetteville, N. C.
Carter, Donald Dean TC N 3	Erwin, Tenn.
Carter, Edward Fennell TC N 2	Erie, Pa.
Carter, George Daniel, Jr. TC C 1	Carthage, N. C.
Carver, Gordon Malone, Jr. TC N 7	Durham, N. C.
Cash, Leon Hartsell TC N 6	Winston-Salem, N. C.
Castle, Edwin Robert TC M 6	Rome, N. Y.
Castro, Bennie TC M 6	Tampa, Fla.
Cates, Brawner, Jr. EC M 8	Richmond, Va.
Chambers, Chester Leslie TC N 4	Freeport, N. Y.
Chambers, Joseph Edward TC C 2	Whitesville, W. Va.

Chandler, James Ryan TC C 6	Daytona Beach, Fla.
Chandler, John Kenneth TC M 6	Chattanooga, Tenn.
Chaney, Elza Breckenridge TC N 1	Puxico, Mo.
Chapin, Louis Edward TC N 3	Stafford, Va.
Chapman, John Edward, Jr. EC C 7	Charlotte, N. C.
Chapman, John W. TC M 8	Logan, W. Va.
Chapman, Thomas Louis TC C 3	East Orange, N. J.
Chapman, W. H. EC C 8	East Orange, N. J.
Chesnut, James Lyons TC C 6	Pittsburgh, Pa.
Chilcote, Charles William TC N 1	Winnetka, Ill.
Christie, Walter TC N 6	Bergenfield, N. J.
Cittadino, Benjamin Nicholas TC N 6	Long Branch, N. J.
Clagg, James Arthur TC M 6	Huntington, W. Va.
Clair, James Paul TC N 4	Pittsburgh, Pa.
Clark, Alan Dale TC M 4	Millville, N. J.
Clark, Don Morse TC N 1	Hellam, Pa.
Clark, Allen Berkley TC M 4	South Boston, Va.
Clark, George Philemon TC N 3	Wilson, N. C.
Clark, Harry Githens, Jr. TC M 6	Wadesboro, N. C.
Clark, Howard Thomas TC M 6	Ft. Thomas, Ky.
Clark, Hubert Karl EC N 4	Durham, N. C.
Clark, Robert Arthur TC C 7	Elizabethton, Tenn.
Clark, Sherman Dockray TC C 6	New York, N. Y.
Clarke, Donnelly Royce TC N 2	Asheville, N. C.
Clarke, Len Gordon TC N 4	Draper, N. C.
Clary, William Martin TC N 2	Raleigh, N. C.
Clear, James Robert EC M 2	Medford, Mass.
Clements, Lawrence Withers, Jr. TC M 2	Roanoke Rapids, N. C.
Clifford, Thomas Norman TC C 8	Rodgers Forge, Md.
Close, Leland Grant TC C 2	Bryson City, N. C.
Cloud, Robert Andrew TC N 1	Eddystone, Pa.
Cobb, George Everett TC N 4	Freehold, N. J.
Cocke, John EC N 3	Charlotte, N. C.
Coggins, Wilmer Jesse TC C 4	Maddison, Fla.
Colarusso, Joseph Rutley TC N 4	Long Island, N. Y.
Colby, John Arthur TC N 2	Springfield, Mass.
Cole, Richard Shipley TC N 4	Norfolk, Va.
Collins, Warren James TC C 4	Comas, Wash.
Coman, James Hilary, Jr. TC N 8	Durham, N. C.
Coman, William Thomas EC N 3	Durham, N. C.
Compton, Robert Gary TC N 4	Bartow, Fla.
Conner, Judson Jerome EC M 2	Hartford, Conn.
Connor, Bruce Kenneth EC M 7	Washington, D. C.
Conrow, Abraham Engle, Jr. TC N 3	Rancocas, N. J.
Conroy, Joseph Alphonse TC N 4	Queens, N. Y.
Conway, John Francis TC M 6	Jacksonville, Fla.
Cook, Glynn Leon TC M 8	Columbia, Miss.
Cook, Jere Kinney TC C 3	Charlotte, N. C.
Cook, John William TC M 4	Afton, Va.
Cook, Robert Edward TC N 3	Chicago, Ill.
Cook, William Walter, Jr. TC M 8	Dover, N. J.
Cooley, Edward Jensen TC N 4	Washington, D. C.
Coon, Elvin Ralph, Jr. EC M 2	Belmont, Mass.
Cope, Billy Sherrill EC N 3	Sylva, N. C.
Copeland, Leon H. TC M 2	El Dorado, Kan.
Copley, Alden Gibson EC N 4	New Rochelle, N. Y.
Corwin, Richard Crane EC C 4	Toledo, Ohio
Cost, William McClelland TC C 2	Newport, R. I.
Cottam, Robert Thomas, Jr. EC N 2	High Point, N. C.
Coulter, Fred Winferd TC N 3	Orlando, Fla.

Courtney, Thomas Marshall TC N 6	Winston-Salem, N. C.
Cowan, Wesley DeWitt EC N 3	Garnesville, Fla.
Cowie, Franklin Garrett, Jr. EC M 3	Alexandria, Va.
Cowin, Robert Edwin TC N 4	Franklin, Pa.
Cox, Carlyle Lanneau TC M 6	Robersonville, N. C.
Cox, James Herbert EC N 4	Bridgeton, N. J.
Cox, James Howell TC N 3	Mt. Airy, N. C.
Cox, Roscoe Thomas, Jr. TC M 4	Greenville, N. C.
Cox, William Jones, Jr. TC C 2	Elizabeth City, N. C.
Craft, Clifford Justin, III EC M 2	Drexel Hill, Pa.
Crain, Richard Proctor EC C 2	Cincinnati, Ohio
Crane, Frank TC C 4	Detroit, Mich.
Crane, Richard TC N 6	Wayne, Pa.
Crawford, Gerald Eugene TC N 5	Minneapolis, Minn.
Crawford, John Clifford TC N 7	Penacook, N. H.
Crenshaw, Roy Weldon TC M 6	Lanett, Ala.
Cress, Robert EC N 1	High Point, N. C.
Crews, Alton Cornelius TC N 2	Centerville, Ala.
Crittenden, William Cunningham TC N 7	Birmingham, Ala.
Crivello, Alfred Anthony TC N 1	Baltimore, Md.
Crothers, John Floyd TC N 1	Columbus, Ohio
Crouch, Jodie Merle TC N 2	Bronson, Texas
Crowder, John Nathaniel TC N 2	High Point, N. C.
Crutcher, James Carroll TC N 1	Dover, N. J.
Cuff, Robert William TC N 3	Floral Park, N. Y.
Cummings, Jonathan Walkley EC M 2	Bennington, Vt.
Cunliff, Edward TC N 6	St. Louis, Mo.
Cunningham, Meriwether Lewis TC N 4	Winston-Salem, N. C.
Currey, Russell W. EC M 2	Chelsea, Mass.
Currier, Richard Dustin TC N 4	Rye Beach, N. H.
Curry, Patrick Joseph TC N 6	St. Joseph, Mo.
Curtin, David Nicholas TC N 1	Syracuse, N. Y.
Curtis, Charles Marshall EC N 6	Climax, N. C.
Cushwa, Victor TC N 5	Williamsport, Md.
Cutter, Ernest, Jr. TC N 6	Lexington, Mass.
Dackis, Willam Charles EC C 7	Durham, N. C.
Dalton, Craig Gates TC N 8	Toledo, Ohio
Danaher, Robert Cornelius TC N 7	Washington, D. C.
Daniel, Garland Sanderson, Jr. TC M 4	Lexington, Va.
Daniels, Albert Hill TC N 1	Asheville, N. C.
Darden, Thomas Milton TC M 8	South Bend, Ind.
Davidson, John Campbell TC M 8	Miami, Fla.
Davidson, Theron Wesley TC N 1	Voorheesville, N. Y.
Davies, Kenneth William TC N 1	Lima, Ohio
Davis, Edward Roy TC N 6	Scarsdale, N. Y.
Davis, John Kendall, Jr. TC N 5	Berlin, Md.
Davis, Tom Harmon TC N 4	Scranton, Pa.
Davis, Wayne Edward TC N 2	High Point, N. C.
Davis, Wesley Smith TC N 5	Harrisburg, Pa.
Davis, William Archie EC N 4	Charlotte, N. C.
Davison, Robert Henry TC N 2	Lynbrook, N. Y.
Dayvault, Nevin Edward EC M 8	Concord, N. C.
Deal, Joseph Douglas, Jr. EC N 3	Norfolk, Va.
Dean, John William TC C 1	Stovall, N. C.
Deas, Eugene Inman TC N 5	Richmond, Va.
Deas, Jules TC M 6	Charleston, S. C.
Deaton, Donald Burette TC N 2	Mooresville, N. C.
DeButts, William Edward TC M 6	Oak Park, Ill.
Decker, William Marshall TC M 6	White Plains, N. Y.
DeCosier, Linton Henry TC C 4	Dayton, Ohio

Deese, Charles Glenn TC N 2	Kannapolis, N. C.
Deets, Edward Henderson TC N 2	Clarksburg, Md.
DeFilippo, Joseph Martin TC C 1	Bridgeport, Conn.
de la Guardia, Jaime TC C 2	Panama City, Panama
Delle Donne, Marseilles TC M 4	Homestead, Pa.
Dellinger, William Dwight EC N 1	McAdenville, N. C.
Denneny, James Clinton, Jr. TC M 6	Fayette, Mo.
Denning, David Berrie TC C 2	Newberry, S. C.
Derwallis, Jerome Robert EC N 4	Newport, R. I.
de Venoge, Harry Christopher TC N 4	Long Island, N. Y.
DeVore, Leonard Horton TC N 4	Cincinnati, Ohio
DeWitt, William Day EC N 8	Sheppard Field, Texas
Dibble. James Birney TC N 2	Aurora, Ill.
Dibble, Philip Gage TC N 4	Birmingham, Mich.
Diedrich, William Arnold TC N 1	Hamlin, N. Y.
Dillon, Grover Lee EC C 6	Raleigh, N. C.
Dillon, Marcus Lunsford TC C 4	Lewisburg, W. Va.
DiMona, Joseph Michael TC N 6	Haddonfield, N. J.
Dinkler, Leonard Ronald TC N 1	Mabscott, W. Va.
Dinsmore, John Clark EC M 8	Bell Buckle, Tenn.
Ditto, William Murchison EC M 8	Charlotte, N. C.
Dix, Everett S. TC M 6	Alexandria, Va.
Dixon, John Milner EC N 4	Waterbury, Conn.
Dmytryk, John EC M 2	Westfield, Mass.
Doggett, Charles Spence EC N 1	Union Mills, N. C.
Doig, Calvin DeWitt TC N 4	Packanack Lake, N. J.
Doig, William Dunsmore TC C 5	Packanack Lake, N. J.
Dolan, Edwin Arthur TC N 6	Maplewood, N. J.
Dolson, Thomas Lee TC N 4	New Castle, Pa.
Donahue, William Francis, Jr. TC M 6	Montgomery, Ala.
Donohue, John Joseph TC N 6	Worcester, Mass.
Donze, Charles Amadee, Jr. TC N 3	Philadelphia, Pa.
Doring, John Siemon, Jr. TC N 1	Chicago, Ill.
Dorman, Bruce Hugh TC N 4	Plainfield, N. J.
Dorsch, Frank Charles EC N 4	Wheeling, W. Va.
Dorton, Spero Pete EC C 2	Durham, N. C.
Doty, Fred Owen TC C 6	Old Hickory, Tenn.
Dovell, Ray Harris TC N 4	New York, N. Y.
Downes, Charles Slingluff TC N 1	Baltimore, Md.
Doyle, Everett James TC N 6	Long Island, N. Y.
Doyle, Richard Lee EC C 4	Buffalo, N. Y.
Drabent, Eugene Alphonse TC N 1	Scranton, Pa.
Drake, Clarence TC C 2	Akron, Ohio
Drake, Fenton George TC N 2	Springfield, Ill.
Dratz, Arthur Frederick TC N 6	Lynbrook, N. Y.
Drummond, Douglas Jay TC N 2	Richmond, Va.
Dudenhoeffer, Daniel George TC N 4	Brooklyn, N. Y.
Dulworth, Early Vaughan TC M 8	Greensburg, Ky.
Dunaiski, Raymond Martin TC N 1	Duluth, Minn.
Dunn, Davis Henry EC N 6	Ridgewood, N. J.
Dunn, Robert Francis TC C 1	Southern Pines, N. C.
Dunne, James Thomas TC N 3	Chicago, Ill.
Durand, Frank, Jr. TC N 1	Sea Girt, N. J.
Durbin, Stephen Frank TC N 2	Altoona, Pa.
Dutton, William Wallace, Jr. TC M 6	Baltimore, Md.
Dworsky, Leon Jacob EC C 1	Durham, N. C.
Early, Albert Terry TC N 4	Welch, W. Va.
Easterling, John G. TC C 3	Rocky Mount, N. C.
Eastman, John Roger EC C 8	Bronxville, N. Y.
Eastman, Paul Reed TC N 4	Bronxville, N. Y.

Eaton, William Mellon TC N 2	New York, N. Y.
Eckerd, John Charles TC N 2	Taylorsville, N. C.
Edens, John Clarence EC C 1	Rowland, N. C.
Edmondson, William Donald TC M 6	Tarboro, N. C.
Edwards, Ian Keith TC C 4	Abbeville, S. C.
Edwards, Ralph Pearson TC N 3	Charlotte, N. C.
Edwards, William Bacon TC N 6	Mt. Vernon, N. Y.
Ehrenfeld, William EC N 8	Flemington, N. J.
Elam, William Nile TC N 3	Washington, D. C.
Elderkin, Walter Raymond TC N 4	Montclair, N. J.
Eldredge, Robert Breene TC M 2	Waterbury, Vt.
Elkins, Augustus Coolidge EC N 4	Durham, N. C.
Elliott, Austin Lafayette, Jr. TC N 2	Thomasville, N. C.
Elliott, Escalus EC N 4	Durham, N. C.
Elliott, John Earle, Jr. TC N 1	Chevy Chase, Md.
Ellison, Haskell Saul TC C 3	Charleston, S. C.
Emerman, Maxwell Louis TC N 4	Erie, Pa.
Ervin, Charles Conger TC N 2	Lenoir, N. C.
Erwin, Eugene Kent TC M 2	Grand Junction, Colo.
Eskew, William Theo, Jr. EC N 6	Anderson, S. C.
Eubanks, "Jack" Otha Albert, Jr. TC N 2	Durham, N. C.
Evans, Hugh Stackhouse, Jr. EC N 6	Nashville, N. C.
Evans, William Henry, Jr. TC N 1	Edgewater, Md.
Evans, William Thomas, III EC M 7	Jacksonville, Fla.
Everhart, Claude Elsbert TC C 1	Winston-Salem, N. C.
Fairy, William Arthur TC C 6	Burlington, N. C.
Farber, Charles TC N 4	Newark, N. J.
Farley, Albert TC C 8	Bay City, Mich.
Farrar, Julian TC N 4	Carthage, N. C.
Farrell, Jack Edward TC M 4	Jacksonville, Fla.
Farren, William Joseph TC N 1	New York, N. Y.
Faulk, Ralph Ivey TC M 4	Thomasville, Ga.
Fauser, Walter Bernard, Jr. TC N 1	Rochester, Mich.
Fels, Frederic Edward EC N 4	Santurce, Puerto Rico
Felton, Eric Rogers TC N 3	Wilson, N. C.
Ferguson, Edmund, Jr. EC M 4	Huntington, W. Va.
Feriozi, Dante John TC N 7	Washington, D. C.
Ferree, Max Fulton TC N 6	Winston-Salem, N. C.
Fess, Harold Arthur Ronald EC N 1	Dayton, Ohio
Fetzer, William McKinnon TC N 3	Brevard, N. C.
Fick, David William TC N 6	Passaic, N. J.
Fike, Robert Guy EC M 3	Falls Church, Va.
Fine, Jack Paul EC N 7	Richmond, Va.
Fisher, James Walter EC N 1	Tampa, Fla.
Fish, Harry Gustav TC C 6	Penns Grove, N. J.
Fisher, Karl Emmett TC M 6	Kannapolis, N. C.
Fisher, Robert Ross TC C 4	Youngstown, Ohio
Flax, Donald TC M 8	Exmore, Va.
Fletcher, Harold Thompson, Jr. TC N 8	Grand Rapids, Mich.
Flora, Joseph Wilson, Jr. TC N 4	Moyock, N. C.
Flowe, Benjamin Hugh TC C 2	Concord, N. C.
Floyd, Dagma Leake, Jr. TC M 6	Athens, Ga.
Floyd, Daniel Justin TC C 2	Fairmont, N. C.
Floyd, William Stewart TC N 2	Pittsburgh, Pa.
Flynn, Robert Edmund EC M 2	Taunton, Mass.
Flynn, Wilson Paul TC C 1	West Haven, Conn.
Folger, Fred, Jr. TC C 2	Mt. Airy, N. C.
Fonger, William Hamilton TC N 2	Chicago, Ill.
Fontana, Emanuele TC N 1	Washington, D. C.
Ford, Curtis Milton TC M 1	Augusta, Ga.

Foreman, James Graham TC N 1	Elizabeth City, N. C.
Forrestal, Joseph Bernard TC N 2	Afton, Wisc.
Fort, David Acrill TC M 4	Gaffney, S. C.
Foster, Joseph Byram TC C 2	New York, N. Y.
Fox, George Henry EC N 4	Oaklyn, N. J.
Frazier, Rawls Harrell TC N 6	Virgilina, Va.
Frederick, Roland TC N 2	Oroville, Wash.
Freeark, Ray Henry, Jr. TC N 1	Chicago, Ill.
Freed, Jacob Bressler EC N 8	Winston-Salem, N. C.
Freedman, William EC C 4	Durham, N. C.
Freeman, Jack EC M 6	Washington, D. C.
Freeman, Walter Charles TC N 2	Arlington, Va.
Freeman, William Shuford TC C 2	Dacusville, S. C.
Freeze, William Robert EC N 5	Charlotte, N. C.
Frisch, Joseph EC C 1	Durham, N. C.
Frizzelle, John Lloyd, Jr. TC C 2	Durham, N. C.
Fry, Louis Claude TC M 2	Burnet, Texas
Fulghum, Francis Marion TC N 2	Wilson, N. C.
Fuller, Aubrey Clement TC M 6	Lexington, Ky.
Fuller, Manley Kearns TC N 6	Whiteville, N. C.
Fulner, Albert John, Jr. EC M 6	Hartford, Conn.
Furst, William Dunton TC CG 1	Baltimore, Md.
Gable, Kenneth Lowell TC N 6	Webster Groves, Mo.
Gable, Laurence John, Jr. TC N 4	Webster Groves, Mo.
Gadsden, Cecil Maurice EC N 6	Rapid City, S. D.
Gage, Lucius Gaston, Jr. TC C 3	Charlotte, N. C.
Gaillard, Stephen Lee TC N 4	Bronxville, N. Y.
Gaines, William Robert TC N 6	Lexington, Va.
Gallant, William Erskine, Jr. TC C 3	Anderson, S. C.
Gantt, Robert Melvin TC N 9	Durham, N. C.
Gantt, Samuel Fox TC N 6	Durham, N. C.
Gard, Richard TC N 1	Hamilton, Ohio
Gardiner, William Leo, Jr. TC C 2	Baltimore, Md.
Gardner, Forrest, Jr. EC M 8	Hendersonville, N. C.
Gardner, Richard Marvin, Jr. TC N 2	Washington, D. C.
Gardner, William Henry, Jr. EC N 5	Edenton, N. C.
Garrett, John Edward EC M 2	Wapakoneta, Ohio
Garrett, Norman Hessen, Jr. TC C 2	Mt. Kisco, N. Y.
Garrett, Robert Roth TC C 7	Asheville, N. C.
Garrick, Grier Lucius, Jr. TC N 4	Decatur, Ga.
Gartrell, Robert Gentry TC C 1	Blue Ridge, Ga.
Gatling, Myrlon Lydon TC C 1	Norfolk, Va.
Gaudette, Paul Robert EC M 4	Trenton, N. J.
Gaumnitz, Gordon Arthur TC N 6	Washington, D. C.
Gee, William Allan TC M 2	Niles, Mich.
Gibbs, Charles Spurgeon TC N 1	Chimney Rock, N. C.
Gibbs, George Morgan TC N 2	Washington, D. C.
Gibbs, Lloyd Graham TC C 1	Union, S. C.
Gilbert, Arthur Lewis TC N 6	Havre de Grace, Md.
Gilbert, Clarence Wesley TC N 4	Port Richmond, S. I., N. Y.
Gilbert, Richard Lawrence TC N 6	White Plains, N. Y.
Gilbert, Warren Levi TC N 2	Altoona, Pa.
Gilchrist, Charles Pierson TC M 6	Emmerton, Va.
Giles, Charles Ogburn TC N 6	Lexington, N. C.
Gillen, H. William TC N 6	Glen Rock, N. J.
Gilligan, Sidney Rogers, Jr. EC M 2	Warren, Mass.
Gilpin, Roy Edwin, Jr. TC N 1	Carson, Iowa
Ginley, Thomas Henry, Jr. TC N 5	Girardville, Pa.
Ginther, John Oliver TC N 2	Logansport, Ind.
Glancy, William Lemuel TC N 2	Mt. Airy, N. C.

Glaser, James Joseph TC N 1	Norwood, Ohio
Glass, John Wesley TC N 1	Sanford, N. C.
Gleason, John Craddock EC M 6	Salem, Va.
Glimcher, Melvin Jacob EC M 2	Chelsea, Mass.
Glos, Richard Corbin TC C 2	Tampa, Fla.
Glover, Edward James, Jr. TC C 2	Lumberton, N. C.
Goddard, Edward Adolphus TC N 6	West Palm Beach, Fla.
Goehrs, Robert TC CG 4	Houston, Texas
Golden, Richard Francis TC N 2	Cumberland, Md.
Goldhill, Walter Allan TC N 6	Great Neck, L. I., N. Y.
Goodell, Horace Grant TC N 2	Chicago, Ill.
Goodman, Howard EC N 1	New York, N. Y.
Goodrich, Hugh Robert EC M 1	Houston, Texas
Gordon, Harold William TC N 4	Portsmouth, Ohio
Goss, Jack Gregory TC N 6	Aurora, Ill.
Graham, Joseph Lawton EC N 4	Lake Lure, N. C.
Granata, Angelo TC N 6	Verona, N. J.
Granville, Joseph Ensign TC N 4	Westport, Conn.
Gray, Harry Williams TC N 2	Poolesville, Md.
Grayson, Allan, Jr. EC N 6	Dallas, Texas
Green, Emry Capelle TC N 3	Greensboro, N. C.
Green, Paul, Jr. TC C 2	Thomasville, N. C.
Green, Thomas William TC M 2	Cranston, R. I.
Greene, George Perry EC N 8	Boone, N. C.
Gresham, Rex Maynard TC CG 2	Oklahoma City, Okla.
Gribben, James, III TC N 6	Thomasville, Ga.
Griese, Harry TC N 1	Cincinnati, Ohio
Griffeth, Leon Clifford TC C 2	Holmes, N. Y.
Griffin, William Augustine TC C 2	Durham, N. C.
Griffith, Wendell Phillips TC N 2	Maplewood, N. J.
Griggs, Eugene Schenck TC C 3	New Brunswick, N. J.
Groome, Roland Carlyle TC M 8	Greensboro, N. C.
Grubb, John Gilbert, Jr. EC N 3	Norfolk, Va.
Grudee, Robert Ferdinand TC N 1	Pelham Manor, N. Y.
Gubin, Morton Leon TC N 4	Durham, N. C.
Guiliano, Jerry James TC C 6	Irvington, N. J.
Gulledge, Marius Bailey TC N 6	Albemarle, N. C.
Gulley, Wilbur, Jr. TC N 6	Little Rock, Ark.
Gum, William Brooks EC N 6	Charleston, W. Va.
Gunn, Charles Groshon, Jr. TC N 4	Bluefield, W. Va.
Gunst, Cyril TC N 4	Glenshaw, Pa.
Gunst, James Staub TC N 2	Glenshaw, Pa.
Gurganus, William Ray TC N 4	Rocky Mount, N. C.
Gustus, Warren Joseph TC N 2	Charleston, Mass.
Guthrie, Eugene H. TC CG 3	Chevy Chase, Md.
Guthrie, Frank Edwin TC M 6	Louisville, Ky.
Guthrie, Ray McDonald EC N 1	Morehead City, N. C.
Gwinn, Charles Loomis TC M 1	Hinton, W. Va.
Gwyn, Allen Hatchett TC N 6	Reidsville, N. C.
Gypson, Harold Ellington EC C 6	Rome, N. Y.
Haas, William Howard TC C 2	Norwalk, Conn.
Hagaman, Hugh Bernard TC M 6	Winston-Salem, N. C.
Hagan, Robert Ridley TC M 2	Norfolk, Va.
Hagans, Roger TC M 5	Hartselle, Ala.
Haggerty, William Clifford TC N 7	Lakewood, Ohio
Haight, Edward LaVerne TC N 1	Maywood, Ill.
Haines, George Louis, Jr. TC N 4	Washington, D. C.
Hair, William Bates, Jr. EC N 1	Gastonia, N. C.
Haislip, Clinton Leslie TC N 2	Stokes, N. C.
Hale, Lewis Gordon, Jr. TC N 4	Scarsdale, N. Y.

Hall, Harry Duncan TC N 1	Jamestown, N. Y.
Hall, Wayne Thomas TC N 2	Albemarle, N. C.
Halm, Joseph John TC N 1	Chicago, Ill.
Halperin, George Bennett TC C 2	Shu Shan, N. Y.
Hamilton, Charles Gilbert TC CG 5	Birmingham, Ala.
Hamilton, James Palma, Jr. TC N 1	Clearwater, Fla.
Hamman, John Shue TC N 6	Pitcairn, Pa.
Hammer, William Harris TC C 1	Lynchburg, Va.
Hammond, David Palmer TC N 2	Cerro Gordo, N. C.
Hamper, Stanley Robert TC N 1	Aurora, Ill.
Hancock, Quinlan Harris TC N 2	Alexandria, Va.
Hand, Edgar Hall TC C 1	Pineville, N. C.
Haninger, Glenn James TC N 2	Cilero, Ill.
Hann, William Gribble TC N 1	Brownsville, Pa.
Hanner, Austin Zach TC M 4	Earl, Ark.
Harbaugh, Harold Charles EC C 2	St. Charles, Ill.
Hardage, Robert Kenneth EC M 5	Madden, Miss.
Harden, Milton Ray, Jr. EC C 1	Durham, N. C.
Hardison, Frederick Leon EC C 2	Williamston, N. C.
Hargett, Derward Mitchell EC N 3	Charlotte, N. C.
Harkness, Richard Roland EC N 4	Randolph, N. Y.
Harner, Harry Lee TC M 6	Staunton, Va.
Harper, Richard Ellsworth TC M 4	Healy, Kan.
Harris Frank Leslie, Jr. EC N 4	Racine, Wisc.
Harris, Guy Leslie, Jr. TC N 6	Warren, Ohio
Harris, Henry Sear TC C 2	Norfolk, Va.
Harris, Norman Arthur TC N 3	Ridgecrest, N. C.
Harris, Richard Earl TC M 7	Graceville, Fla.
Harrison, James Graham TC C 5	Mt. Airy, N. C.
Harrison, William Mortimer, Jr. TC M 6	Newport News, Va.
Harry, Reece Price TC C 2	Greensboro, N. C.
Hart, Richard Henry EC N 4	Anniston, Ala.
Hartley, Howard Paul TC N 4	Ravenswood, W. Va.
Hassel, William Frederick TC C 2	Laurinburg, N. C.
Hattaway, James Herbert TC C 4	Greensboro, N. C.
Hawkins, Jack DeWeese TC N 8	Braintree, Mass.
Hawkins, Josias Henry, Jr. TC N 2	Forest Heights, Md.
Haworth, Homer Franklin TC N 2	High Point, N. C.
Hayes, Thomas Phillips TC N 6	Paterson, N. J.
Haynes, Winfred Newman TC M 6	Tracy City, Tenn.
Hays, Robert William TC N 4	Chamblee, Ga.
Hays, Thomas Franklin TC N 1	Park Ridge, Ill.
Hayworth, Joseph Allison TC C 4	High Point, N. C.
Head, William Larkin TC N 1	Chamblee, Ga.
Hearty, George Jay TC N 5	Akron, Ohio
Hebb, John Hopewell TC N 4	Baltimore, Md.
Hedin, Dan Erik TC N 6	Richmond, Va.
Hegarty, James Harold, Jr. TC N 1	Chicago, Ill.
Helgason, Hordur TC C 3	Isafjordur, Iceland
Henderson, Jesse James TC C 2	Wendell, N. C.
Henninghausen, Frederick Herman EC N 4	Baltimore, Md.
Henry, William Charles TC N 4	Atlanta, Ga.
Hensley, Ray Lawrence TC N 1	Pinehurst, N. C.
Herbst, Robert Taylor TC N 2	Charleston, S. C.
Hermance, Robert Lincoln TC N 6	Nashua, N. H.
Herod, Jack TC M 6	Gallatin, Tenn.
Herring, Howard Egbert, Jr. TC N 4	Wilson, N. C.
Hewlett, Marvin McCoy TC M 6	Birmingham, Ala.
Hibbett, John Allen, Jr. TC M 6	Gallatin, Tenn.
Higgins, Edwin Reese TC N 6	Beckley, W. Va.

High, Sherrill Rae TC N 2	Durham, N. C.
Hill, Francis Ulyess, Jr. EC C 8	Durham, N. C.
Hill, John Kling TC C 9	Snyder, N. Y.
Hill, Robert Matteson TC C 1	Durham, N. C.
Hill, Thomas Bayard TC N 4	Bronxville, N. Y.
Hinson, Gus DeLacy TC M 4	Orlando, Fla.
Hinton, Thomas Edward EC C 1	Charleston, S. C.
Hipple, Harris Blair EC N 4	Spring City, Pa.
Hirshland, Lee David TC N 4	Reading, Pa.
Hjertberg, Harold Emil TC N 6	Poughkeepsie, N. Y.
Hodgkins, Norris Lowell TC C 1	Southern Pines, N. C.
Hoellen, Earl Edwin TC N 1	Chicago, Ill.
Hof, Richard TC CG 5	Sheldon, Iowa
Hogan, William A. TC M 4	Starkville, Miss.
Hogarth, Bruce Edward EC C 8	Cheshire, Conn.
Hoge, DeForest TC N 4	Bronxville, N. Y.
Holcomb, Charles Edwin TC N 1	Shelby, N. C.
Holden, Edward Allen EC M 8	Jamaica, N. Y.
Holeman, Richard Blacknell, Jr. TC C 2	Timberlake, N. C.
Holley, Charles Richard TC N 2	Ocala, Fla.
Hollingsworth, Connor Wright TC M 8	Cave Spring, Ga.
Hollingsworth, James William TC C 4	Mt. Airy, N. C.
Holloman, Milton Carden, Jr. TC N 2	Durham, N. C.
Holmes, Harold TC N 1	Chicago, Ill.
Holtsinger, Edgar Meek TC CG 2	Jacksonville Beach, Fla.
Homan, Henry Harbach TC C 1	Lebanon, Pa.
Honeycutt, Kemp Carter, Jr. TC N 2	Hickory, N. C.
Hood, Richard Thorton TC N 4	Kinston, N. C.
Hornaday, Harold Preston TC N 2	Greensboro, N. C.
Horne, Emory Henry TC M 6	Norfolk, Va.
Hornor, Frank TC N 6	Clarksburg, W. Va.
Horton, Gillam TC N 8	Wilmington, N. C.
Horwath, LeRoy John TC N 1	Joliet, Ill.
Horwitz, Herbert Earl TC N 6	Cleveland Heights, Ohio
Hotchkiss, Benjamin Franklin, Jr. TC N 1	Cumberland, Md.
Houghton, Robert Allen TC M 6	Berryville, Va.
Houk, Joseph Thomas TC N 2	Indianapolis, Ind.
Houpt, Frank Pearson EC N 4	Willow Grove, Pa.
Howell, Joseph Adams, Jr. TC M 2	Richmond, Va.
Hubbard, James Norment TC N 2	Washington, D. C.
Huber, Richard Lumley TC N 6	Scranton, Pa.
Hudson, Fitzgerald Salter EC M 4	Montgomery, Ala.
Hudson, Ralph Fletcher TC N 2	Mt. Morris, Ill.
Huelser, George Wells TC C 1	Staten Island, N. Y.
Huffman, Paul Douglas EC C 4	Thomasville, N. C.
Hughes, William James EC C 1	Baltimore, Md.
Humphreys, Charles Wesley TC N 2	Washington, D. C.
Humphreys, Ewing Sloan, Jr. TC M 8	Atlanta, Ga.
Humphries, Bishop Marvin, Jr. TC C 1	Charlotte, N. C.
Hunt, Roy Franklin TC M 8	Greenville, S. C.
Huntley, Benjamin Franklin TC N 4	Winston-Salem, N. C.
Huntley, Justus Robert, Jr. TC N 4	Westfield, N. J.
Hurley, Raymond Dominic TC N 4	Washington, D. C.
Hutchinson, Herbert Malcolm TC N 4	East Orange, N. J.
Hutt, Richard Rudolph EC N 6	Hammonton, N. J.
Hybert, George Fred TC N 7	Chicago, Ill.
Hyde, Henry John TC N 4	Chicago, Ill.
Imhoff, John Leonard EC N 3	Baltimore, Md.
Ingalls, Warren Montgomery, Jr. EC N 4	Englewood, N. J.
Ireland, Thomas DeWitt TC N 2	Fairmont, W. Va.

Irons, Robert Sidney TC M 6	Washington, D. C.
Irwin, Frank Moore EC N 4	Raleigh, N. C.
Isenhour, Merle Edwin EC N 6	Durham, N. C.
Ivey, George Melvin, Jr. TC N 6	Charlotte, N. C.
Izlar, Henry LeRoy, Jr. TC N 6	Winston-Salem, N. C.
Jackson, Cecil Banon TC C 6	Durham, N. C.
Jackson, Ervin, Jr. TC C 1	Birmingham, Ala.
Jackson, Murray T. EC M 8	Kannapolis, N. C.
Jackson, William Harold TC N 1	Cabin Creek, W. Va.
Jackson, William Morrison, Jr. EC M 2	Framingham, Mass.
Jacobs, Ralph William TC N 2	Plainfield, N. J.
Jacobson, Henry Samuel TC N 2	New York, N. Y.
Jaffey, Arthur TC C 7	Somerville, N. J.
Janatka, Joseph TC N 1	Berwyn, Ill.
Jarvis, Hallett Ward TC C 2	Charleston, S. C.
Javer, Jerome Milton TC C 3	Brooklyn, N. Y.
Jay, W. Thomas, Jr. TC C 4	Bradford, Pa.
Jeffcoat, Gaines Ray EC M 6	Opp, Ala.
Jefferson, Cecil William EC N 1	Warrior, Ala.
Jegle, Robert Henry TC N 1	Bronx, New York, N. Y.
Jenkins, Donn Keyes TC N 3	Mt. Rainier, Md.
Jenkins, James Turner TC M 8	Madden, Miss.
Jenks, Stuart Carlyle EC M 6	Richmond, Va.
Jensen, James Allen EC N 6	Great Neck, N. Y.
Jernigan, James Henry TC N 1	Charleston, S. C.
Jerritt, James Albert TC N 3	Kenansville, N. C.
Jewell, David William TC N 1	Mission, Kan.
Johnson, Daniel Lee TC N 6	Grosse Pointe, Mich.
Johnson, David Stone TC N 2	Washington, D. C.
Johnson, Edward Louis EC N 6	Bellaire, N. Y.
Johnson, Horace Lee, Jr. EC M 8	St. Louis, Mo.
Johnson, James Gaston EC M 8	Rocky Mount, N. C.
Johnson, James Patton, Jr. TC N 4	Lakeland, Fla.
Johnson, John William EC M 4	Franklin, Va.
Johnson, Lester Dean TC N 5	Chevy Chase, Md.
Johnston, Robert Malcus TC N 6	Evanston, Ill.
Johnston, William Young EC M 8	Eufaula, Ala.
Johnstone, Robert Dale TC C 8	Munhall, Pa.
Jones, Carl Lester, Jr. TC C 2	Laurinburg, N. C.
Jones, Conway Jefferson, Jr. TC C 2	Fountain Inn, S. C.
Jones, Edward Lenoir TC C 2	Gastonia, N. C.
Jones, Ethrage Felton TC C 7	Durham, N. C.
Jones, John Charles TC N 1	Grassy Creek, N. C.
Jones, Luther Clarke, Jr. TC N 4	Richmond, Va.
Jones, Pelham Thomas TC N 6	Marshallberg, N. C.
Jones, William Bailey TC C 2	Raleigh, N. C.
Jordan, Gerald Ray, Jr. TC C 3	Charlotte, N. C.
Jordan, Samuel Kelly EC N 1	Albemarle, N. C.
Jorgensen, Paul Sejr TC N 1	Chicago, Ill.
Josey, John Speir TC C 1	Bartow, Ga.
Josey, William Ellis TC C 4	Bartow, Ga.
Joy, William Addison TC C 6	Ventnor, N. J.
Jules, Philip TC CG 5	Los Angeles, Calif.
Kail, John Frederick TC N 1	Upper Sandusky, Ohio
Kalander, William Robert TC N 4	Stamford, Conn.
Kalevas, Harry John TC C 6	Rockingham, N. C.
Kaley, Harry Embich EC N 6	Lancaster, Pa.
Kaptur, Joseph TC M 4	Lakewood, Ohio
Karcher, Duncan Edward TC N 1	New York, N. Y.
Karl, William Wainwright EC C 8	Tarrytown, N. Y.

Kasch, Norman Arthur TC N 1	Blue Island, Ill.
Kastelz, William Lawrence TC CG 7	Aurora, Minn.
Kates, Harry Luther EC N 1	Philadelphia, Pa.
Katz, Edward TC N 7	Arlington, Va.
Katzenstein, Henry Sour EC C 1	Shreveport, La.
Katzenstein, Jack EC C 8	Shreveport, La.
Kaufman, Stanley Lionel EC M 2	Burlington, Vt.
Kawchak, James TC C 2	Johnstown, Pa.
Keevan, Thomas John TC N 1	Forest Hills, N. Y.
Keller, Harry LeRoy, Jr. TC N 1	Raleigh, N. C.
Kelley, MacLean TC N 1	Rockford, Ill.
Kelly, Earl Joseph TC N 1	Lanacaning, Md.
Kelly, James Gerald EC N 4	Durham, N. C.
Kelly, John Jackson, III TC N 5	Big Stone Gap, Va.
Kelly, John Vincent TC N 1	Jackson Heights, N. Y.
Kemp, Clarence Edward TC M 2	High Point, N. C.
Kemp, Henry Beattie, Jr. TC M 8	Trenton, S. C.
Kemp, Robert TC M 9	Bamberg, S. C.
Kendall, Herbert Fairfaix, III TC N 7	New York, N. Y.
Kenerly, Robert Harold TC M 8	Salisbury, N. C.
Kennedy, Douglas Gayle TC N 1	Long Beach, Calif.
Kennedy, John Richard TC N 2	Richmond, Calif.
Kennedy, William Cottrell TC M 8	Mt. Dora, Fla.
Kenney, John Franklin TC N 1	Scottdale, Pa.
Kereazes, John August TC N 1	Chicago, Ill.
Kerr, William John, III TC C 2	Durham, N. C.
Kessel, Wallace Dwight TC C 2	Beckley, W. Va.
Kesselring, Albert Bruce TC M 6	Louisville, Ky.
Keye, John Dudley, Jr. TC N 3	El Centro, Calif.
Kibler, Robert Franklin TC C 4	Durham, N. C.
Kicklighter, James Ellis TC N 6	Sarasota, Fla.
Kiernan, Thomas Joseph TC N 3	New York, N. Y.
Killalea, Joseph Neil TC N 2	Leonia, N. J.
King, Fred Grant EC N 3	Youngstown, Ohio
King, Joseph Calvin EC C 2	Leaksville, N. C.
King, Lewis William TC C 1	Lincoln Park, Pa.
Kingsley, Charles Joseph TC CG 1	Mentor, Ohio
Kinum, Louis Albert TC C 2	Scotia, N. Y.
Kirkman, David Clifton EC N 3	Pleasant Garden, N. C.
Kiser, John Wesley TC M 4	Maryville, Tenn.
Kister, Robert Irwin TC M 6	Brooklyn, N. Y.
Kitchens, Jack Conway TC C 10	Bradley Beach, N. J.
Kittner, Harry EC M 8	Weldon, N. C.
Klaaren, Hobart E. TC N 2	Chicago, Ill.
Klopper, Elmer M. TC C 1	Cleveland Heights, Ohio
Knight, Austin Ruddock EC M 2	Beverly, Mass.
Knight, James Ernest, Jr. TC M 8	Jacksonville, Fla.
Knight, Robert Marion TC C 2	Jacksonville, Fla.
Knight, Thomas Gordon EC C 4	Tampa, Fla.
Knott, Ernest Mack TC N 3	Albemarle, N. C.
Knowland, Andrew Richardson TC C 4	Goshen, Mass.
Knowles, Joseph Lamont TC N 4	Mt. Olive, N. C.
Knox, Charles Eugene TC N 2	Davidson, N. C.
Knutson, Earl Gordon TC N 1	Portland, Ore.
Koenig, Elmer August EC CG 1	Libertyville, Ill.
Komlosi, Eugene James EC C 1	Lorain, Ohio
Korelitz, Burton Irwin TC C 4	Lawrence, Mass.
Koutsky, George TC N 1	Chicago, Ill.
Kozluk, Walter TC N 1	New York, N. Y.
Kraemer, Ralph John TC CG 7	Parkers Prairie, Minn.

Krause, Ralf TC N 1	College Pt., N. Y.
Krauss, Edward TC N 1	Lynbrook, N. Y.
Krieger, Andrew Francis TC N 1	Troy, N. Y.
Krisza, John, Jr. EC C 2	McKees Rocks, Pa.
Krivit, William TC C 4	Linden, N. J.
Kronke, Edward Blaise TC N 3	Queens Village, N. Y.
Kuhlman, Ormand Frederick TC N 2	Elmore, Ohio
Kunkel, Edward X. TC C 2	Williamsburg, Va.
Kunkel, Walter Thomas TC C 2	Easton, Pa.
Kurtz, William Brownlow EC N 4	Waterbury, Conn.
Kuscevichi, Edward Nick TC N 1	Chicago, Ill.
Kwiatkoski, Joseph Daniel EC M 8	Jeannette, Pa.
Ladutko, John TC M 6	West Haven, Conn.
La Hatte, Joseph TC N 4	Falls Church, Va.
Lahtinen, Robert Wyman TC N 1	Chicago, Ill.
Laibstain, Samuel TC M 8	Norfolk, Va.
Lamb, Frank Thompson TC CG 3	Rochester, N. Y.
Lamb, Warren Stacy TC N 1	William Island, Nebr.
Lambert, M. Charles TC C 6	York, Pa.
Lambeth, William Arnold TC N 6	Asheville, N. C.
Lanahan, John Stevenson TC N 6	Pittsburgh, Pa.
Landesberg, Harold Lionel TC N 4	Philadelphia, Pa.
Landis, Clayton Dallas TC N 1	Elgin, Ill.
Landon, Donald TC C 2	Durham, N. C.
Lane, William Augustus, Jr. TC M 9	Miami, Fla.
Lange, Carl James TC N 2	Oil City, Pa.
Langton, John Ellis TC N 3	Williamsburg, Va.
Lapham, George Sealy TC N 1	Columbus, Ga.
Larkin, Sydney Anthony TC N 6	New York, N. Y.
Larew, Hugh Sanford TC N 4	Mocksville, N. C.
Larsen, Robert John TC M 2	Kansas City, Mo.
Lasater, John Ervin EC N 3	Durham, N. C.
Lascara, Anthony Joseph TC M 6	Norfolk, Va.
Lattimore, George Festus, Jr. TC N 4	Kings Mt., N. C.
Lauffer, Richard Albert TC C 2	Passaic, N. J.
Laverty, Robert Anthony EC M 2	Leominster, Mass.
Lawson, John Francis TC N 3	Weston, W. Va.
Lawson, William Barnes TC N 2	Arlington, Va.
Leard, Jack Allman TC M 6	Hartwell, Ga.
Leavitt, Brooks Russell TC N 3	W. Hartford, Conn.
Lee, Edwin Borden, Jr. TC N 4	Goldsboro, N. C.
Lee, Herbert Martin TC N 1	Baldwin, N. Y.
Lee, Joseph O. TC M 6	Salisbury, N. C.
Lee, Richard Wilberforce EC N 9	Morgantown, W. Va.
Leigh, Robert Edward EC C 4	Kinston, N. C.
Leitheiser, William John TC C 3	Clearwater, Fla.
Lemken, Russell Kenneth TC N 7	Brooklyn, N. Y.
Lemon, Elgin Edward TC N 6	Sibley, Iowa
Lenox, Richard Frederick TC N 6	Ridgefield Park, N. J.
Leograndis, Stephen "C." TC N 4	Framingham, Mass.
Lent, Robert Eugene EC N 1	Minneapolis, Minn.
Leonard, Arthur Prudden TC N 6	Miami, Fla.
Leonard, John Quincy TC N 1	Knoxville, Tenn.
LeValley, Victor Ritzendollar, Jr. TC N 4	Long Branch, N. J.
Levin, Eugene Milton EC N 6	Newport News, Va.
Levine, Bertram TC C 6	Paterson, N. J.
Levy, Julius Leo, Jr. EC N 4	Baltimore, Md.
Lewis, Clifford Allen TC C 1	Cleveland, Ohio
Lewis, James Kelly EC N 2	Mount Holly, N. C.
Lewis, John Barkley EC N 6	Poughkeepsie, N. Y.

Lewis, Worth Pegram TC C 2	Raleigh, N. C.
Lies, William, III TC C 4	Coleman, Ga.
Linberg, Eugene Joseph TC C 6	Carney's Point, N. J.
Lind, John Henry EC N 1	Clarendon, Vt.
Lindsey, Ray Lavond EC M 5	Blakely, Ga.
Linn, Jacob Paul TC M 4	St. Petersburg, Fla.
Linsley, John Henderson EC M 2	N. Windham, Maine
Lipsitz, Lee Stanley TC C 2	Ahoskie, N. C.
Little, Charles Edward TC M 4	Norfolk, Va.
Lodor, James Craig EC N 3	Wilmington, N. C.
Logan, David Malcolm EC M 2	White River Junction, Vt.
Long, Paul Ellsworth EC N 6	Roanoke, Va.
Longenecker, Donovan Leroy TC N 1	Lewisburg, Ohio
Longino, Frank Henry TC N 4	Texarkana, Ark.
Lopez, Ramon TC N 2	McAllen, Texas
Lorenzen, Robert Frederick TC C 4	Toledo, Ohio
Love, Frank Swindell TC C 3	Durham, N. C.
Lowery, Richard Wilborn TC M 8	Halifax, Va.
Lowry, Frank Noonan TC CG 6	Berwyn, Ill.
Lucas, Bernia Blackburn, Jr. TC N 2	Garrison, W. Va.
Lucas, Stephen John TC N 2	Beaverdale, Pa.
Lundeberg, Philip Karl TC N 7	Durham, N. C.
Luper, Raymond Elmore TC M 6	Norfolk, Va.
Lutterloh, Ralph Buxton TC N 2	Fayetteville, N. C.
Lyerly, James Gilbert TC N 3	Jacksonville, Fla.
Lynch, Luby Raeford TC C 2	Wilmington, N. C.
McAlduff, Thomas Philip TC N 4	Garden City, N. J.
McAlister, Joe Howard TC C 4	Caruthusville, Mo.
McAllister, Eugene Francis TC CG 2	Davenport, Iowa
McBane, Joseph Harold TC N 4	Greensboro, N. C.
Macbeth, William Benson TC N 1	Ventnor, N. J.
McCabe, William John, Jr. TC N 1	Cambridge, Mass.
McBryde, Clarence Otis EC M 8	Lakeview, N. C.
McCain, William Crawford TC M 6	Hughes, Ark.
McCall, William TC C 2	Winston-Salem, N. C.
McCambridge, John Francis, Jr. TC N 5	Chevy Chase, Md.
McCanless, Edgar Eugene TC C 4	Canton, Ga.
McCarthy, Eugene Clare TC M 2	Tulsa, Okla.
McCarver, Charles Truitt TC N 1	Bridgeport, Conn.
McCaskill, Dudley TC C 3	Tifton, Ga.
McClelland, Dean Smucker EC N 6	Johnstown, Pa.
McCollum, Kenneth Earle EC N 2	Guilford College, N. C.
McCormick, Daigold Stuart, Jr. EC N 4	Manchester, N. C.
McCormick, John Newton TC M 8	Louisville, Ky.
McCown, Wallace Hardin TC N 4	Johnson City, Tenn.
McCoy, Donald Dean TC N 1	Greenfield, Ohio
McCracken, William Woods TC N 6	Henderson, N. C.
McCreight, Paul Willard TC N 4	Huntington, W. Va.
McCrory, John Graham TC M 4	Carter's Bridge, Va.
McCuiston, Robert Alexander, Jr. TC N 6	Winston-Salem, N. C.
McCulloch, Francis Walton EC M 4	Huntsville, Ala.
McCune, Robert Eugene TC N 1	Gassaway, W. Va.
McCusker, Edward Frank EC N 3	Endicott, N. Y.
McDonald, Joseph Frank TC N 1	Freeport, N. Y.
McDonald, William Maddox TC N 2	Washington, D. C.
McDowell, Theodore Noyes TC N 3	Washington, D. C.
McEldowney, Thomas Cairns TC N 1	Charleston, W. Va.
McElrath, Hunter Budd TC M 6	Jacksonville, Fla.
McEwen, William Clark TC M 7	Jacksonville, Fla.
McGary, Malcolm Carroll EC N 6	Newton, Mass.

McGinnis, George Ira TC M 4	Rochester, N. Y.
McGowan, Donald TC C 2	Youngstown, Ohio
McGraner, James Ernest TC N 1	Haydenville, Ohio
McGrath, Frederick John, Jr. EC M 6	Morris Plains, N. J.
McGraw, William Higgins TC N 4	New York, N. Y.
McGuire, Donald TC M 5	Baltimore, Md.
McGuire, Neal Warren EC C 4	Winston-Salem, N. C.
McHughes, Emmett Ralph, Jr. TC N 1	Jackson, Tenn.
McIntire, Hubert Elwyn, Jr. TC N 6	Ridgewood, N. J.
McKeague, Robert Edmond EC C 9	Petersburg, Va.
McKee, William David EC C 2	Forest Hills, N. Y.
McKelvie, Henry Rennie TC C 4	Huntsville, Ala.
McKenzie, James Williams TC N 1	Washington, D. C.
Macklin, Theodore Ora TC M 2	Lowell, Mass.
McLaughlin, Hugh Charles TC N 6	Raeford, N. C.
McLaughlin, Robert Theodore EC C 6	Charlotte, N. C.
McManus, Lawrence Edwin TC M 8	Winston-Salem, N. C.
McMillan, Robert Leroy, Jr. TC M 6	Raleigh, N. C.
McMurran, William Royal EC N 4	Norfolk, Va.
McPhaul, John Archibald TC N 2	Parkton, N. C.
McPherson, Harry Thurman TC C 4	Walnut Cove, N. C.
McSwain, William Lawrence TC N 6	Glen Alpine, N. C.
MacWhirter, James Evan TC N 6	Charlotte, N. C.
McWilliams, Thomas Peter TC C 4	Scranton, Pa.
Maguire, Kenneth James TC N 1	Glendora, N. J.
Mahony, Donald Vincent TC N 4	Baltimore, Md.
Maki, Arthur Onnie TC N 1	Homewood, Ill.
Makosky, Robert Charles TC C 4	Alhambra, Calif.
Malcolm, Robert Samuel TC C 1	Dayton, Ohio
Malone, Harold John TC C 9	Bridgeport, Conn.
Mankin, Harold Turner TC N 4	Chevy Chase, Md.
Mann, Clyde Robinson TC M 6	Manteo, N. C.
Mann, Frederick L. EC C 6	Drexel Hill, Pa.
Mansfield, Harold Eugene TC C 2	Jeannette, Pa.
Mansur, Richard Winthrop TC M 5	St. Petersburg, Fla.
Markey, Hugh Arthur TC N 7	Staten Island, N. Y.
Markham, Charles Buchanan TC C 4	Durham, N. C.
Markham, James Edward, Jr. TC N 7	Washington, D. C.
Marsh, Spinks Hamilton TC C 4	Monroe, N. C.
Marshall, Charles Hayward, Jr. EC N 6	Washington, D. C.
Marshall. William Donald TC N 4	Memphis, Tenn.
Marsic, Frederick Eugene TC N 4	Caldwell, N. J.
Martin, Abraham William EC CG 1	Peckville, Pa.
Martin, Edwin, III TC M 6	Miami, Fla.
Martin, Howard Francis TC N 6	Burlington, Wisc.
Martin, Theodore Brelsford TC N 4	Middletown, Ohio
Martin, William Allen TC N 5	Arlington, Va.
Martinat, Edwin Henry TC N 2	Lenoir, N. C.
Martinelli, Robert Owens TC N 4	Covington, Va.
Martorell, Richard Albert TC C 2	Tampa, Fla.
Marzella, Sam Anthony TC M 6	Bellaire, Ohio
Maschmeier, Robert Harry TC CG 5	St. Louis, Mo.
Mason, Charles Manning EC N 6	Durham, N. C.
Mason, William Albert EC N 4	Detroit, Mich.
Massey, Thomas Benjamin TC C 1	Charlotte, N. C.
Masters, Thomas Schuyler TC N 2	Omaha, Nebr.
Matherly, Ulysses Grant TC M 4	Sarasota, Fla.
Matia, Thomas Ormand TC N 6	Cleveland, Ohio
Matthai, Paul Frederick TC N 1	Baltimore, Md.
Maurer, David Eugene TC M 6	Ft. Lauderdale, Fla.

Maxwell, David Jack, Jr. EC C 6	Johnstown, Pa.
Maxwell, Robert Reginald EC M 2	Long Island, N. Y.
May, Lucian Fennell TC M 8	Quincy, Fla.
May, William Leece, Jr. TC M 3	Tazewell, Va.
Mayer, Baron Pierson TC N 2	Mt. Union, Iowa
Mayer, Ronald George TC M 8	Brooklyn, N. Y.
Mayo, Benjamin Franklin TC N 2	Rocky Mount, N. C.
Mays, Alexander Allen TC N 2	Pittsburgh, Pa.
Meader, Phillip Warren EC M 2	Whitinsville, Mass.
Mebane, William Mason TC C 1	Tryon, N. C.
Meeker, James Allen TC N 1	Toledo, Ohio
Meinecke, Evans Arnold TC C 6	Ridgewood, N. J.
Mel, Peter John TC N 5	San Pedro, Calif.
Menke, Robert Louis TC N 1	Elgin, Ill.
Merchant, Robert Eugene TC N 2	Kearneysville, W. Va.
Merrick, Robert Wakefield TC N 3	Salina, Kan.
Merritt, William Russell TC N 6	Mullins, S. C.
Messinger, Arthur Louis TC N 3	Chicago, Ill.
Metzger, Paul A. TC N 1	Columbus, Ohio
Metzler, Robert James TC N 6	Lincoln Park, Pa.
Meyer, Warren John EC N 4	Staten Island, N. Y.
Micara, Francis Anthony Edward TC N 6	Brooklyn, N. Y.
Michel, Beverley Vidal, Jr. TC N 3	Roanoke, Va.
Middleton, James Grayson TC N 4	Wilmington, N. C.
Mieczkowski, John Joseph EC M 2	Westport, Mass.
Miles, Wilson Meriwether TC N 2	Danville, Va.
Millard, David Dean TC C 4	Detroit, Mich.
Miller, Anthony George, Jr. TC N 5	Chevy Chase, Md.
Miller, Arthur Marcus TC N 4	Elmira, N. Y.
Miller, Baxter Davis TC N 2	Boone, N. C.
Miller, Don Francis TC N 4	Buffalo, N. Y.
Miller, Frank Lane, Jr. EC N 3	Charlotte, N. C.
Miller, George Brown, Jr. EC N 3	Durham, N. C.
Miller, Loren Valmore TC C 6	Yonkers, N. Y.
Miller, Marvin Parmcek TC N 4	Chicago, Ill.
Miller, Thomas Maurice TC M 6	Richmond, Va.
Miller, Victor John TC C 1	Virginia Beach, Va.
Miller, Walter James, Jr. TC N 4	Salisbury, N. C.
Miller, William Hugh EC N 4	Highland Park, Mich.
Millsap, Cecil Ray TC N 1	Christoval, Texas
Milne, Peter TC N 1	Niagara Falls, N. Y.
Milner, Charles Edgar TC M 8	Waynesville, N. C.
Minor, John Truslow TC M 2	Staunton, Va.
Mintz, Ronald Earl TC M 2	Rocky Mount, N. C.
Missbach, Edwin Charles TC N 6	Bloomfield, N. J.
Mitrushi, Peter Perry TC M 6	Atlantic City, N. J.
Mize, Jack Pitts TC N 6	Rutherford, N. J.
Moehlenkamp, Fred G., Jr. TC CG 2	Wyandotte, Mich.
Moen, Roger Orin TC N 4	Raleigh, N. C.
Mohler, William Edward TC M 6	Charleston, W. Va.
Monk, William Lee TC N 7	Gainesville, Fla.
Monnett, Charles Guy, Jr. TC M 8	Greensboro, N. C.
Moody, Austin Lee TC N 2	Woodstown, N. J.
Moore, George Walker St. Clair TC N 5	Bluefield, W. Va.
Moore, Jesse Seneca, Jr. TC N 3	Reidsville, N. C.
Moore, Louis Doyle TC C 2	Toccoa, Ga.
Moore, Robert Emmett TC M 6	Marion Junction, Ala.
Moore, Russell Hobron EC N 6	Towson, Md.
Moore, Samuel (Tim) Leedom TC N 8	Miami Beach, Fla.
Moore, Sherwood Edgar TC C 6	Daytona Beach, Fla.

Mooring, Francis Paul TC C 8	Rocky Mount, N. C.
Morfit, John Campbell, Jr. TC N 6	St. Louis, Mo.
Morgan, Alton Carroll TC N 4	Winston-Salem, N. C.
Morgan, Charles E. TC M 6	Albertville, Ala.
Morgan, James LeRoy TC N 2	Norfolk, Va.
Moring, Bernard Christopher, Jr. EC M 2	Norfolk, Va.
Morris, George Cooper TC N 5	Beaumont, Texas
Morris, John Robert TC N 4	Youngstown, Ohio
Morrison, Francis Warren TC N 4	Daytona Beach, Fla.
Morrow, Richard Carl TC M 2	Wyandotte, Mich.
Morse, James Reynolds TC N 1	Mason City, Iowa
Moss, Daniel TC C 2	Durham, N. C.
Mote, Henry Kelley TC M 6	Hapeville, Ga.
Mraz, James Joseph William TC N 1	Chicago, Ill.
Mullen, Harris Hopkins TC N 1	Tampa, Fla.
Muller, Donald Harvey EC N 4	Brooklyn, N. Y.
Mullinnix, Ralph Charles TC N 2	Indianapolis, Ind.
Mullins, Harold Winston TC C 2	Keaton, Ky.
Mundie, Donald Robertson TC N 6	Kenmore, N. Y.
Munro, Bursell G. TC C 1	Miami, Fla.
Murchison, Clinton Williams, Jr. EC M 6	Dallas, Texas
Murphy, Robert Logan TC N 1	Ocala, Fla.
Murray, Calvin Leo EC M 2	Butler, Okla.
Murray, John Walter, Jr. TC M 8	Raleigh, N. C.
Murray, Robert Filgo TC C 4	Lenoir, N. C.
Musselman, Elmer LeRoy TC N 2	Plano, Ill.
Myatt, Ernest George TC N 2	Raleigh, N. C.
Myatt, Robert Woodall TC N 6	Durham, N. C.
Myers, Charles Rudolph EC C 7	Haddonfield, N. J.
Myers, Joe Thomas EC N 8	Kent, Ohio
Myers, Ralph Bernard TC N 6	Canton, Ohio
Myers, Robert Eugene TC N 2	Clinton, Ill.
Nabow, Stanley Ellman EC C 1	Charlotte, N. C.
Nagler, Gordon Richard TC N 1	Baltimore, Md.
Nason, William Preston TC M 6	Sturgis, Miss.
Natterson, Joseph Morton TC N 4	Wheeling, W. Va.
Nauman, Robert Vincent TC C 8	East Stroudsburg, Pa.
Neal, Charles Warren TC N 5	Oak Hill, W. Va.
Nease, Edgar Harrison, Jr. TC C 4	Salisbury, N. C.
Neaves, Frederick Edward TC C 8	Long Branch, N. J.
Nedvins, Ernest Joseph EC M 8	Dorchester, Mass.
Nelson, Donald Palmer TC C 2	Pinehurst, N. C.
Nelson, Joseph Lee, Jr. EC M 6	Norfolk, Va.
Newby, Louis Llewellyn, Jr. TC M 8	Norfolk, Va.
Newcomb, Nelson Faulks TC N 3	Roselle, N. J.
Newcomb, Robert Timberlake, Jr. EC C 7	Raleigh, N. C.
Newell, William Badger TC N 6	Roxboro, N. C.
Newhall, Wilber James, IV TC N 6	Hollywood, Fla.
Newman, Delbert Paul TC M 6	Clinton, Wisc.
Newman, Ernest Gustave TC N 1	Pensacola, Fla.
Newsom, Ernest Edward EC N 8	Durham, N. C.
Newton, Ernest Cliborne TC N 2	Skipwith, Va.
Newton, Robert Lee TC N 3	Durham, N. C.
Nicholas, James Ernest EC M 7	Frisco City, Ala.
Nichols, Robert Hill TC N 1	Pittsford, N. Y.
Nicholson, William Henry TC N 2	Durham, N. C.
Nickels, William Washington, Jr. TC N 4	Bristol, Tenn.
Nickinson, Edward Phillips, Jr. EC C 1	Pensacola, Fla.
Nickerson, Marcus Franklin, II TC N 2	Knoxville, Tenn.
Nietman, Robert Frederick TC N 6	Long Island, N. Y.

Nist, Donald Edward TC N 2	Chicago Heights, Ill.
Nixon, Dalbro Russell, Jr. EC M 8	Elizabeth City, N. C.
Noble, Gerald Stewart EC M 2	Chicago, Ill.
Noell, John Henley TC M 6	Shelby, N. C.
Nolan, John William TC N 1	Winona, Texas
Nolen, Andrew Jack TC N 6	New York, N. Y.
Nolte, Henry Ralston, Jr. TC N 6	New York, N. Y.
Nordin, Warren Alfred TC N 2	LaGrange, Ill.
Nordmann, Thomas Edward TC M 6	DeLand, Fla.
Nordstrom, Frank B. TC N 2	Glen Ellyn, Ill.
Norris, John Ernest, Jr. EC N 5	Columbia, N. C.
Norris, Robert Willingham EC N 4	Chattanooga, Tenn.
Northrup, Aldrich Holt TC N 3	Pensacola, Fla.
Novick, Jerome Francis TC M 6	Frackville, Pa.
Nunnally, James Ray EC N 4	Hugo, Okla.
Oakes, William James TC N 2	Van, Pa.
O'Callaghan, Thomas Patrick TC M 8	St. Petersburg, Fla.
O'Connell, Thomas Sullivan TC N 1	Waunskee, Wisc.
Oder, Robert James TC N 4	Toledo, Ohio
O'Donnell, Walter Edward TC N 7	Worcester, Mass.
Oetzell, Walter Allen TC N 1	Villa Park, Ill.
O'Kane, Calvin Russell TC C 6	Columbus, Ohio
Ollen, Walter George TC N 1	Jamaica, N. Y.
Olive, Ryland Wrenn EC C 2	Charlotte, N. C.
Olliff, Charles Kendrick TC M 6	Orieda, Fla.
Olson, Robert Dale TC N 1	La Moille, Iowa
O'Neal, John Thomas TC N 2	Washington, D. C.
Onken, Warren Harding TC C 5	Brooklyn, N. Y.
Orbish, Vincent Albin TC N 2	Dickson City, Pa.
Ornoff, Harold EC C 4	Durham, N. C.
Orr, Richard Lee EC N 1	Buffalo, Kan.
Ott, Lloyd Ballenger, Jr. EC M 8	Linesville, Pa.
Owen, David Shreve TC M 2	Lancaster, Ohio
Owen, Herman William TC N 6	New York, N. Y.
Owen, Jean Worth TC M 4	Tallahassee, Fla.
Owen, Lewis Hagood TC C 8	Durham, N. C.
Owen, Lincoln TC C 2	Cleveland, Ohio
Owen, William Edison TC M 4	Washington, D. C.
Oyen, William TC N 2	Chicago, Ill.
Pablo, Herbert Sebastian TC N 4	Miami, Fla.
Pace, Thomas Marshall EC C 8	Pensacola, Fla.
Pachuki, Benjamin TC C 4	Wallingford, Conn.
Page, Ernest Benjamin TC N 2	Raleigh, N C.
Palenske, John Bowen TC N 4	Wilmette, Ill.
Palmer, Harry Hyde TC C 8	Tarboro, N. C.
Palmer, Walter Weidman TC N 4	Easton, Pa.
Palmer, William Jacob, Jr. EC N 4	Baltimore, Md.
Pappas, Theodore John TC N 1	Belleville, Mich.
Pardee, Graham "F." TC N 1	Floral Park, N. Y.
Parkhurst, Robert Louis TC M 6	Montclair, N. J.
Parsons, David Willard TC N 4	Louisville, Ky.
Parsons, Paul Harper EC N 2	Crane, Mo.
Partridge, William Elmore TC N 1	Beacon, N. Y.
Past, Si Alexander, Jr. TC M 4	Chattanooga, Tenn.
Patafio, John Joseph TC N 1	Brooklyn, N. Y.
Pate, Thomas Waldo TC C 7	Erwin, N. C.
Patience, Kurt Dixon EC M 6	St. Augustine, Fla.
Patrick, Henry Lawrence TC M 8	Kings Mt., N. C.
Patton, Michael Franklyn TC C 2	Spartanburg, S. C.
Patton, Russell Homer EC C 1	Jonesboro, Ark.

Paugh, Lawrence Richard TC N 1	New York, N. Y.
Paul, George Curtis TC N 6	Flat River, Mo.
Paveglio, Richard Lewis TC N 1	Waukegan, Ill.
Payne, John Edward TC N 2	Clayton, N. C.
Payseur, Coyt Reed TC N 2	Charlotte, N. C.
Paytash, Joseph, Jr. TC N 2	Lafferty, Ohio
Pearson, Cordie Lester, Jr. TC N 1	Wilmington, N. C.
Pearson, Emmett Clark TC M 6	Paola, Fla.
Pease, Robert Glenn TC N 1	Canandaigua, N. Y.
Peasley, John Warren TC N 2	Flossmoor, Ill.
Peck, James William TC C 10	Summerville, W. Va.
Peebles, Cecil Melvin TC N 2	Oxford, N. C.
Peebles, Withers Goodwyn, Jr. TC M 6	Mooresville, Ala.
Peele, William Oscar, Jr. TC N 2	Williamston, N. C.
Peksa, Charles Francis TC N 1	Catonsville, Md.
Pendergraph, William Lawrence TC N 2	Haw River, N. C.
Pennington, Schuyler Wayne TC C 2	Mt. Holly, N. C.
Pentecost, William Vaughan, Jr. TC M 4	Atlanta, Ga.
Perkins, William Allan, Jr. TC M 2	Charlottesville, Va.
Pering, Thomas Henry TC N 1	Springfield, Mo.
Perlow, Albert TC N 1	Baltimore, Md.
Perry, James Warden TC N 2	Oak Hill, W. Va.
Perry, Leland Myre TC N 1	Walker, Mo.
Peters, Charles Eugene TC C 2	Alexandria, Iowa
Peterson, Charles Andrew TC N 2	Elgin, Ill.
Peterson, Herrick Roland TC N 4	Day Book, N. C.
Peterson, James Hardin, Jr. TC C 2	Lakeland, Fla.
Peterson, Jim Neil TC M 8	Saperton, Ga.
Peyton, Thomas Pendleton, III EC M 4	Crozet, Va.
Phillips, Charles Anthony TC N 2	Man, W. Va.
Phillips, John Drury EC M 2	Hingham, Mass.
Phillips, Martin TC N 2	Fall River, Mass.
Phillips, Robert Derrick TC N 4	Atlanta, Ga.
Piccone, Domenic TC N 2	Ardmore, Pa.
Pickett, Dallas Perry TC N 1	Stewartsville, Mo.
Pickett, John Philip TC M 6	Charleston, S. C.
Pierce, John Anthony, Jr. TC M 2	Arlington, Mass.
Pierson, Frank Augustus, Jr. TC C 1	Durham, N. C.
Piggford, Roland Rayburn TC N 4	Monongahela, Pa.
Pittman, Dean Elias TC N 1	Pierceville, Kan.
Pittman, Luther Hollingsworth TC N 4	Baltimore, Md.
Pitts, Noah Odas, Jr. TC N 7	Glen Alpine, N. C.
Pitts, William Gibson TC C 1	Spring Hope, N. C.
Plant, Frank Morell TC M 6	Opelika, Ala.
Plessner, Fred TC N 4	Great Neck, N. Y.
Poe, William Boyd TC M 7	Durham, N. C.
Poerschke, Edward Robert TC N 1	Detroit, Mich.
Polier, Arthur TC C 1	Raleigh, N. C.
Poling, Edwin Ray TC N 1	Clarksburg, W. Va.
Pool, Stedman Charles TC N 4	Norfolk, Va.
Pope, Warren Harold TC C 1	Bordentown, N. J.
Porter, Edmond Waddill TC C 2	Wilson, N. C.
Porter, Harold Ellis TC N 1	Afton, Iowa
Post, Jerald Bernard TC N 2	Palisade, Nebr.
Poteat, Thomas L. TC N 5	Durham, N. C.
Potesky, Theodore TC N 2	Chicago, Ill.
Povlsen, Paul Kristian, Jr. TC N 2	Racine, Wisc.
Powell, Harry Rutter EC N 4	Norfolk, Va.
Powell, John Henry TC N 1	Miamisburgh, Ohio
Powell, John Lynn TC C 6	Wichita, Kan.

Powell, Robert William, Jr. TC N 4	Goldsboro, N. C.
Powers, Richard Walter, Jr. EC M 2	Pittsford, Vt.
Preslar, Arthur Joe TC C 8	Hickory, N. C.
Preslar, Glenn Little TC C 1	Hickory, N. C.
Preslar, Mack Judson EC C 2	Durham, N. C.
Presson, James Roy TC C 1	Newport News, Va.
Priemer, August Bernhard TC C 1	New York, N. Y.
Price, Richard Jay TC N 1	Marion, Ohio
Primm, Arthur Weeks TC N 8	Miami, Fla.
Primm, Walter Rogers TC N 6	Miami, Fla.
Pritchard, Robert Grant TC N 2	Reading, Pa.
Procopion, Samson John EC N 4	Waterbury, Conn.
Propps, Henry Mason TC M 7	Fayetteville, W. Va.
Prytherch, John Pershing TC C 7	Binghamton, N. Y.
Purvis, David Regon TC M 4	Tampa, Fla.
Quigley, John Edward TC M 1	Quantico, Va.
Rabenberg, Jack Rodney TC N 3	Lime Spring, Iowa
Rabern, Joseph William TC N 1	Atlanta, Ga.
Rabley, Joseph Edward TC N 3	Chelsea, Mich.
Raether, Harold TC N 1	Toledo, Ohio
Ralph, Donald Barnes TC N 2	Newburgh, N. Y.
Ramey, Robert Lee EC CG 4	Middletown, Ohio
Rancke, John McMillan TC C 2	Lumberton, N. C.
Randall, Robert John TC N 1	Waukegan, Ill.
Ranon, Severin Donald EC N 4	Irvington, N. J.
Ranson, William Alexander TC N 6	Charlotte, N. C.
Ranta, Wilhart Mathew TC CG 6	Sault Ste. Marie, Mich.
Rathjen, Paul Erwin TC N 1	Benedict, Nebr.
Ratzel, Arthur Cleveland TC N 2	Brooklyn, N. Y.
Raup, William Wagner TC N 6	Arlington, Va.
Rawlings, Raymond Walton TC N 1	University City, Mo.
Rawls, John Lewis TC N 4	Suffolk, Va.
Ray, Wilmer Herrington TC M 8	Weson, Miss.
Raymond, Harry Paul TC C 1	Collingswood, N. J.
Read, William Marsden, III TC N 4	Maywood, N. J.
Reams, Hugh Etherton TC N 6	Toledo, Ohio
Reardin, Charles Richard TC N 2	Fair Lawn, N. J.
Reaves, Edwin LeRoy TC C 4	Asheboro, N. C.
Reckenbeil, Arthur Jacob EC N 4	New Hyde Park, N. Y.
Reddoch, James Folmar TC M 6	Luverne, Ala.
Reed, Benny Austin TC N 1	Decatur, Ga.
Reed, Ralph Alton EC N 1	Winston-Salem, N. C.
Rees, Harold Bernard TC N 4	Baltimore, Md.
Reese, Allen Toms TC N 1	Hendersonville, N. C.
Regester, Robert Thomas, Jr. TC C 1	Baltimore, Md.
Reid, James Herbert, Jr. EC M 8	Ethel, W. Va.
Reinschmidt, Julian Stephen TC C 2	Pensacola, Fla.
Rementer, George Wilson, Jr. TC N 6	Alden, Pa.
Remmey, John Grouch, Jr. TC N 4	Philadelphia, Pa.
Ressler, Duane Wilbur TC N 1	Harrisburg, Pa.
Reyle, John Edward EC C 4	Radburn, N. J.
Reynolds, James Edward TC M 4	Camden, N. J.
Rhett, Albert Haskell EC M 6	Westfield, N. J.
Rice, Walter Bernhard TC C 2	Greenville, S. C.
Rice, William Elbert TC M 2	Duncan, Ariz.
Richardson, Frank Perry TC M 2	Nashua, N. H.
Richeson, John Minor EC M 6	Hazlewood, N. C.
Richey, John Aubrey TC M 4	Leesburg, Fla.
Rickert, Robert Dale TC N 4	Tuckahoe, N. Y.
Ridenhour, Robert Lee TC N 4	Kannapolis, N. C.

Riggall, Arch John TC C 6	Huntington, W. Va.
Rigsbee, Albert Vinson TC N 2	Durham, N. C.
Riley, Joseph Paul TC N 4	Tampa, Fla.
Rima, Donald Robert TC N 1	Parish, N. Y.
Rita, George Thomas TC N 4	Chevy Chase, Md.
Ritter, James Martin EC N 8	Sandusky, Ohio
Ritter, John Franklin, Jr. TC N 1	Nevada, Mo.
Rivers, Charles Guy EC N 4	New Rochelle, N. Y.
Roach, Francis Lawrence TC N 2	Chicago, Ill.
Roach, James Anthony TC N 2	Toledo, Ohio
Roan, John Sylvester, Jr. TC M 4	Pattison, Miss.
Roberts, Levi James TC N 3	Norfolk, Va.
Roberts, Raymond Craerin TC N 1	Washington, D. C.
Roberts, William Frederick, Jr. TC M 3	Flint, Mich.
Robertson, Albert TC N 6	Miami, Fla.
Robins, Clifford Benjamin, Jr. EC M 2	Tonawanda, N. Y.
Robins, Robert Louis TC N 6	Harrisburg, Pa.
Robinson, Harry Delmer, Jr. EC C 5	Winchester, Va.
Robinson, James Arlington TC M 4	Chattanooga, Tenn.
Rocker, Charles Lamar, Jr. TC C 2	Lakeland, Fla.
Roderick, Robert Lee TC N 3	Mt. Prospect, Ill.
Rodger, Ralph John, Jr. TC N 6	Dayton, Ohio
Rogers, Glen Oliver TC N 1	Central City, Iowa
Rogers, Ira Bascomb, Jr. TC M 6	Maryville, Tenn.
Rogers, Henry Moore TC N 4	Wilson, N. C.
Rogers, James William TC M 5	Childress, Texas
Rogers, Ralph Peele, Jr. TC N 2	Durham, N. C.
Rogers, Richard Ovid, Jr. TC C 2	Bluefield, W. Va.
Rose, Lester William EC C 2	Durham, N. C.
Rose, Ronald Seymour EC N 6	Durham, N. C.
Rose, Russell Alber, Jr. EC N 6	Dallas, Texas
Rosenberg, Alvan Frederick TC C 3	Newtonville, Mass.
Rosenthal, Marvin Daniel TC N 5	Baltimore, Md.
Ross, Phife Charles TC N 2	Kannapolis, N. C.
Ross, Walter Lee TC N 1	Baltimore, Md.
Roszel, James Page TC M 2	Markham, Va.
Rountree, Albert Converse EC C 6	Charlotte, N. C.
Rowe, Frank Hamett, Jr. EC N 4	Washington, D. C.
Rudy, Robert Lee TC N 2	Osborn, Ohio
Ruehl, Theodore George TC N 2	Chicago, Ill.
Rumbaugh, Frank Clayton EC N 5	Burgettstown, Pa.
Runyan, John William, Jr. TC N 7	Memphis, Tenn.
Russell, Donald, Jr. EC C 2	Hamden, Conn.
Russell, Douglas McNair TC M 6	Dillon, S. C.
Russell, George Thompson EC C 2	Hamden, Conn.
Russell, Marvin Earl TC N 1	Stratton, Nebr.
Russell, Wallace Ray TC M 4	Sardis, Miss.
Russell, William Arthur EC C 1	Marshall, Va.
Ryan, John Edward TC N 4	Villanova, Pa.
Rywak, Harry TC CG 1	New Kensington, Pa.
Sacrinty, Otis Mack TC M 6	Reidsville, N. C.
Sale, Edward Dalton TC N 3	High Point, N. C.
Sales, Thomas David EC N 8	Phillipsburg, N. J.
Salisbury, Thomas Garrison TC N 2	Brooklyn, N. Y.
Sandberg, Theodore Ernest TC N 2	Massillon, Ohio
Sanger, Kenneth Edward EC N 6	New York, N. Y.
Santi, Dominic Louis TC N 1	Cicero, Ill.
Sapp, Ora William TC N 1	Augusta, Kan.
Sarazen, Paul Mark TC N 4	White Plains, N. Y.
Sattler, George Richard EC M 4	Crestwood, N. J.

Saturday, Harrison Kenneth EC N 4	Durham, N. C.
Saunders, Llewellyn Corwin EC C 6	Irvington, N. J.
Saunders, Robert Neal EC N 4	Medina, N. Y.
Saunders, Stanley Stewart EC N 3	High Point, N. C.
Savedge, Charles Eugene TC N 9	Richmond, Va.
Savage, Malcolm Brooks TC M 4	Modest Town, Va.
Sax, Leonard Leward EC M 2	New York, N. Y.
Scahill, Thomas Jefferson, Jr. TC N 1	Kansas City, Mo.
Scanlon, William EC N 3	Endicott, N. Y.
Scarrow, David Shotwell TC C 1	Detroit, Mich.
Scates, Julian MacDonald TC N 4	Fulton, Ky.
Schafer, Richard Lewis TC N 4	Philadelphia, Pa.
Schauble, John James TC N 1	Paterson, N. J.
Scheidt, Ralph Norman Stroh TC N 2	Lincoln, Nebr.
Schevers, Donald Edward TC N 1	Northbrook, Ill.
Schieber, Robert Ward TC C 1	Sidney, Ohio
Schirmer, Charles Albert TC N 6	Saginaw, Mich.
Schneider, Ralph Russell EC N 6	Queens Village, N. Y.
Schnell, Charles Norman TC N 4	Cranbury, N. J.
Schoenlaub, Paul Wallis EC M 4	Parris Island, S. C.
Schoenleber, William Barnes TC N 2	Philadelphia, Pa.
Schroeder, Davis Mertes TC N 4	Fond-du-lac, Wisc.
Schroeder, Hobart Arthur EC N 4	Torrington, Conn.
Schuler, Edwin Denby TC N 1	Florence, S. C.
Schurman, Charles William TC N 1	Effingham, Kansas
Schuurman, Richard Bernett TC N 2	Midland Park, N. J.
Schwartz, Benjamin TC N 3	Omaha, Nebr.
Schwartz, Lawrence Michael TC N 6	Brooklyn, N. Y.
Schwartz, Stephen Wise TC N 4	Woodmere, N. Y.
Schweinfurth, Joseph David TC N 3	Bellefontaine, Ohio
Scoggins, Marvin Carr, Jr. TC N 1	Durham, N. C.
Scollard, Robert Joseph TC C 2	White Plains, N. Y.
Scott, Charles William TC N 1	Sioux City, Iowa
Scott, James Allen TC N 6	Polkville, N. C.
Scott, Kenneth McCoy EC N 3	Charlotte, N. C.
Scott, Robert Archibald TC M 3	Bedford, Va.
Scott, Walter, Jr. TC N 3	Baltimore, Md.
Seabury, Robert Glen TC N 3	Pisgah, Iowa
Seay, Thomas Waller, Jr. TC C 2	Spencer, N. C.
Sedwick, Benjamin Frank TC N 4	Baltimore, Md.
Seeley, Donn Elkington TC N 1	Kansas City, Mo.
Seeley, Dunham Briggs EC N 3	Scranton, Pa.
Setzer, Jack Dean TC N 1	Council Bluffs, Iowa
Shanahan, John Rush TC N 5	Washington, D. C.
Shannon, Charles Melvin, Jr. TC M 6	Mt. Jackson, Va.
Sharkey, Fred Albert EC N 6	Wildwood Crest, N. J.
Sharp, Charles Neill TC C 1	Miltonvale, Kan.
Sharp, James Vance TC N 4	Reidsville, N. C.
Sharpe, James Browne TC N 4	East Orange, N. J.
Sharpe, Victor Vivian EC C 1	Tampa, Fla.
Shaver, Thomas Edgar TC N 4	Goldsboro, N. C.
Shaw, Alexander von Skrobotof Cleves EC M 6	North Miami, Fla.
Shaw, John William TC N 3	Jacksonville, Fla.
Shaw, Walter Norman TC N 6	Penns Grove, N. J.
Sheppard, Carl Burnice TC N 1	Gastonia, N. C.
Sheptow, Edward Richard EC C 4	Erie, Pa.
Sheridan, Robert John TC C 8	Weehawken, N. J.
Sherman, Alfred Jay TC N 3	Harrisburg, Pa.
Sherman, Richard Philip TC C 2	Goldsboro, N. C.

Sherwood, Horace Moore TC N 6	Coral Gables, Fla.
Shindler, John Thomas TC N 4	Newburgh, Ind.
Shinners, George Richard TC N 1	Covington, Ky.
Shoemaker, Frank Jerry EC N 4	Scranton, Pa.
Shoemaker, William Dennis TC N 1	Croton, Ohio
Sholes, Charles Wilbur TC N 2	Downeys Grove, Ill.
Short, Raymond Joseph, Jr. EC C 1	Neptune, N. J.
Shoup, Jack Reichart TC N 1	Lima, Ohio
Shugar, Gilbert Lee TC N 2	Tarboro, N. C.
Shumpert, Gerald Wayne TC M 6	Trepelo, Miss.
Shy, DeWitt Malone TC M 6	Memphis, Tenn.
Siebenheller, William Arvid TC N 6	Staten Island, N. Y.
Sigmon, Algernon Festus, Jr. EC M 1	Hickory, N. C.
Siker, Ephraim Solomon TC C 2	Port Chester, N. Y.
Siler, Bernard Leslie TC N 1	Chicago, Ill.
Silliman, Joseph William TC C 1	Danville, Ky.
Silver, Earle Alexander TC N 6	Chattanooga, Tenn.
Silver, Norman Jay TC C 4	New York, N. Y.
Simidian, Vahe TC C 1	Forest Hills, N. Y.
Simmons, Loyd Donald TC N 2	Olney, Texas
Simmons, Mitchell McClay TC N 2	Mt. Airy, N. C.
Simon, John B. TC N 4	Newark, N. J.
Simons, Henry Augustus TC N 2	Jamaica, N. Y.
Simons, Joseph Thomas TC N 3	Harvey, Ill.
Simpson, Zachary Arnold TC C 3	Charlotte, N. C.
Sims, Jim TC M 5	Birmingham, Ala.
Sims, John Boland TC M 4	Beaufort, S. C.
Sinskey, Robert Marshall TC N 2	Baltimore, Md.
Sires, Leroy Alexander TC C 1	Charleston, S. C.
Skarstrom, John Halstein TC C 6	Brooklyn, N. Y.
Slack, Billy Northington TC N 1	Henderson, N. C.
Slaughter, Grimes Gibbons EC C 4	Rockingham, N. C.
Small, Herbert Wesley EC C 3	Charlotte, N. C.
Smith, Anderson Benskin, Jr. TC N 2	Norge, Va.
Smith, Chandler Sparkman TC N 8	Robersonville, N. C.
Smith, Clarence Franklin, Jr. TC N 4	Louisville, Ky.
Smith, David Dawson TC C 2	Logan, W. Va.
Smith, Edward Franklin TC C 6	Raleigh, N. C.
Smith, Edwin Eugene, Jr. TC N 7	Wollaston, Mass.
Smith, Edwin James EC C 3	Ft. Myers, Fla.
Smith, Emory Angelo TC N 6	Raceland, Ky.
Smith, George Basil TC N 1	Winfield, Kan.
Smith, Herbert Derrick, II TC N 6	West Chester, Pa.
Smith, Herbert Green, Jr. TC N 6	Lenoir, N. C.
Smith, Horace Greely, Jr. TC N 5	Charleston, S. C.
Smith, Howard Kenneth TC C 6	Winston Salem, N. C.
Smith, James Daniel TC C 6	Rochester, N. Y.
Smith, John Watson, Jr. TC N 6	Pinehurst, N. C.
Smith, Kenneth McLean, Jr. TC N 1	Milwaukee, Wisc.
Smith, Lester Berry, Jr. TC M 8	Charlottesville, Va.
Smith, Lucius Stone TC N 7	Rome, Ga.
Smith, Raymond Alfred TC N 4	Mt. Airy, N. C.
Smith, Robert Francis EC C 3	Philadelphia, Pa.
Smith, Robert MacLeod TC N 4	Wilmington, N. C.
Smith, Stuart Cameron TC C 6	Staten Island, N. Y.
Smith, Whitefoord, Jr. TC C 4	Charlotte, N. C.
Smith, William Arthur TC C 4	Camden, S. C.
Smolen, Elliott Edwin TC M 7	Atlanta, Ga.
Smurthwaite, Paul Malcolm EC N 4	Coatesville, Pa.
Snedden, Richard Dean TC N 1	Grange, Iowa

Snell, Charles Wallace, Jr. EC M 8	Columbia, N. C.
Snider, William Edward EC C 3	Norfolk, Va.
Snitger, William Herman TC N 6	Beaver, Pa.
Snow, Grover Perry EC N 4	Raleigh, N. C.
Snow, Robert Edward TC C 1	Amesbury, Mass.
Snyder, Stuart Andrew EC N 3	Eltingrille, N. Y.
Soma, Milton Eugene TC N 1	Ames, Iowa
Somerville, John Henry TC N 4	Cumberland, Md.
Sorensen, William Newton TC N 1	Lincoln, Nebr.
Sousa, Joseph Arthur EC M 2	Wakefield, Mass.
Southard, Warren Roscoe TC N 1	Wichita, Kan.
Sowdon, Arthur Whitlock, Jr. TC N 6	Tarrytown, N. Y.
Spandorfer, Lester Malvern EC M 2	Norfolk, Va.
Spangler, Robert Charles TC C 1	Kent, Ohio
Spargur, Lloyd Eugene TC N 1	Shenandoah, Iowa
Sparrow, James Thomas TC M 6	Birmingham, Ala.
Spector, Ronald Gordon TC M 6	Richmond, Va.
Speidel, Charles Frederick EC C 5	Rochester, N. Y.
Spence, Talmage Tolly, Jr. TC N 2	Raleigh, N. C.
Sperow, William Rodgers TC N 1	Nevada, Iowa
Speth, Charles Theodore TC N 8	South Temple, Pa.
Spilman, Walter Mitchel TC M 6	Washington Grove, Md.
Spohn, Hal Clayton TC N 1	Kearney, Nebr.
Springer, Roy, Jr. TC N 1	Jefferson, Iowa
Spurgeon, Charles Randolph TC N 6	Uniontown, Pa.
Stackable, William Robert TC N 4	Chicago, Ill.
Stahler, Albert TC N 1	Scranton, Pa.
Stancik, Edwin Edward TC M 2	Chicago, Ill.
Standish, Livingston Miles TC N 1	St. Petersburg, Fla.
Stanfield, Henry Lawrence TC N 1	St. Petersburg, Fla.
Stanhope, Bill Paul TC N 1	Wichita, Kan.
Stanley, Arleigh Childress TC N 2	Tyler, Texas
Staley, Joseph Richard TC C 2	Frederick, Md.
Stark, Alvin TC N 4	Baltimore, Md.
Starkey, Dean Conwell TC N 1	Kingman, Kan.
Staton, Marshall TC N 5	Wadesboro, N. C.
Staugaitis, John Richard TC C 1	New York, N. Y.
Steele, Albert Johnston EC N 6	Pittsburgh, Pa.
Steele, John William TC N 1	Marysville, Ohio
Stegman, Kenneth Francis TC N 2	Chicago, Ill.
Stein, James Richard TC C 4	Detroit, Mich.
Steinert, Lilbourn Neith TC N 1	Wichita, Kan.
Stender, Herbert Roland, Jr. TC M 6	Charleston, S. C.
Stepbach, Robert Frank, Jr. EC N 4	Binghamton, N. Y.
Stephan, Edwin Audley TC N 6	Trenton, N. J.
Stephens, Robert Russel TC N 1	Whitewater, Kan.
Stephens, Robert Woodward TC N 4	Gainesville, Fla.
Stephenson, Harold Patty EC C 1	Reidsville, N. C.
Stephenson, Thomas Neblett EC N 8	Raleigh, N. C.
Sterrett, Donald Hewett EC N 7	Philadelphia, Pa.
Stevenson, Edward Ward TC N 2	Craigsville, Va.
Stewart, Franklin Burton TC M 8	Sparta, Tenn.
Stewart, Henry Watson TC N 6	Charlotte, N. C.
Stice, Robert Eugene TC N 1	Oswego, Kan.
Stivers, Larry James TC N 1	Des Moines, Iowa
Stockslager, Edwin Stevens, Jr. EC N 3	Westfield, N. J.
Stockstrom, Louis EC C 2	Clayton, Mo.
Stodgsdill, Willis Wordsworth TC N 2	Bloomington, Ind.
Stokes, Hugh Bertrand, Jr. EC N 3	Charlotte, N. C.
Stone, Jack Mink TC M 2	Corbin, Ky.

Stone, Robert Lee, Jr. EC N 4	Durham, N. C.
Stone, Thomas William, Jr. TC M 4	Gallatin, Tenn.
Stonecipher, R. L. TC N 1	Haynesville, La.
Storey, Judd Robert TC N 1	DeKalb, Ill.
Storm, Walter Kern TC N 6	Scarsdale, N. Y.
Storrs, Philip TC N 3	Cincinnati, Ohio
Stottlemyer, Paul Clinton TC N 1	Hagerstown, Md.
Stoudenmire, Jehu Joseph TC M 6	Oswego, S. C.
Stover, William Page EC C 6	Charlotte, N. C.
Stow, James George TC N 6	Port Chester, N. Y.
Strahan, John Franklin TC N 2	Catonsville, Md.
Strain, Delbert Earl TC N 1	Aurora, Mo.
Strasser, Frederick Lee, Jr. TC M 8	Wheeling, W. Va.
Strause, Bernard Halle TC N 6	Richmond, Va.
Streitwieser, Richard W. TC N 1	Broken Bow, Nebr.
Strickland, Grady Monroe TC N 6	Clayton, Ala.
Strickman, Arthur TC N 4	Laurence, N. Y.
Strohm, Charles Fred TC N 4	Cleveland, Ohio
Strone, Bernard William TC N 6	Perth Amboy, N. J.
Stroupe, Connor Bartlette EC N 3	Mt. Holly, N. C.
Stroupe, Robert Edwin EC N 6	High Point, N. C.
Stroupe, Thomas TC C 2	Charlotte, N. C.
Stryker, Maurice DeWilton, Jr. TC N 1	Fredonia, Kan.
Strzyzewski, Edward James, Jr. TC N 1	Grand Rapids, Mich.
Stuart, John Bruce, Jr. TC N 4	South Orange, N. J.
Stulb, Joseph Albert TC N 2	Jersey City, N. J.
Stull, Chester James, Jr. EC M 6	Roanoke, Va.
Styron, William Clark, Jr. TC M 4	Newport News, Va.
Suggs, Jacob Leroy, Jr. EC N 6	Durham, N. C.
Suhling, Edward Colhoun EC M 4	Lynchburg, Va.
Sullivan, Emerson Flavel TC N 4	Hickory, N. C.
Sulzer, Richard Lee TC N 4	New York, N. Y.
Summers, Howard Hasbrouck, Jr. EC N 6	Norfolk, Va.
Sunderland, Ralph Kenneth TC N 2	Dearborn, Mo.
Sutton, John Marshall TC C 2	Russell, Ky.
Sutton, Walter Glenn TC C 1	Brunswick, Ga.
Syrcek, Julian Joseph TC N 1	Chicago, Ill.
Swaringen, Charles Tillett, Jr. EC N 4	Greensboro, N. C.
Sweeney, Francis Joseph TC N 4	Pottstown, Pa.
Swindell, Herbert Anderson EC N 6	Durham, N. C.
Sykes, Wiley Arnold, Jr. EC N 4	Greensboro, N. C.
Synan, Richard Tilson TC N 2	Bedford, Va.
Tailer, Peter Lorillard EC C 3	Norfolk, Va.
Tally, David Kenneth Taylor TC N 4	Fayetteville, N. C.
Talton, Richard Cullen TC N 1	Daytona Beach, Fla.
Tanner, Jack Ray TC N 4	Dublin, Ga.
Tanner, Stephen Odell TC N 5	Minneapolis, Minn.
Taplin, Winn Lowell, Jr. EC M 2	Bennington, Vt.
Tate, Joseph Ishmael TC M 4	Lexington, N. C.
Tavernier, Harold TC N 1	Plandome, N. Y.
Taylor, Ben Lee, Jr. TC M 8	Chattanooga, Tenn.
Taylor, Carl Biggs TC C 1	Pensacola, Fla.
Taylor, Carson Elroy TC CG 1	Nashville, Tenn.
Taylor, Marlin R. TC N 2	Independence, Kan.
Taylor, Robert James TC N 6	Toledo, Ohio
Taylor, Roger Kirkbride, Jr. TC N 1	Baltimore, Md.
Taylor, William Francis TC N 8	Flushing, N. Y.
Teabeaut, James Robert TC C 6	Fayetteville, N. C.
Teabeaut, Thomas Allen EC C 2	Fayetteville, N. C.
Teasley, Jack Lamkin TC N 6	St. Albans, W. Va.

Terrell, Ralph de Poix, Jr. EC C 4	Atlanta, Ga.
Terry, Charles Strong TC C 4	Laurel, Miss.
Terry, Howard TC N 6	Hubbard, Ohio
Tewes, Joseph William, Jr. TC N 7	Baltimore, Md.
Tewksbury, John Sargent EC M 2	Watertown, Mass.
Theriault, John Philip EC N 8	Old Towne, Maine
Thiel, Robert Besant TC N 4	Kearney, N. J.
Thomas, Frank Almerine, Jr. EC M 4	Uniontown, Ala.
Thomas, Robert Joe TC M 2	Augusta, Ga.
Thompson, Charles Welland TC M 2	Daytona Beach, Fla.
Thompson, James Gilliam EC N 3	Greensboro, N. C.
Thompson, Lawrence Charles EC M 2	Derby, Vt.
Thompson, Oscar Mills EC N 4	Rockingham, N. C.
Thompson, Robert Hicks TC C 6	Dublin, Ga.
Thompson, Walter Lowry, III TC N 3	Bellevue, Pa.
Thompson, William Donald TC N 4	Akron, Ohio
Thompson, William Wardlaw, Jr. TC M 2	Virginia Beach, Va.
Thomson, George Bell TC C 6	Crawley, La.
Thorfinnson, Stanley Theodore TC N 1	Lincoln, Nebr.
Thornburg, Willis Herbert TC C 6	New York, N. Y.
Thorsen, Elmer John, Jr. TC N 1	Arlington Heights, Ill.
Thorup, Kent Davis TC M 2	Chevy Chase, Md.
Thrower, Wendell Burton TC C 2	Ridgeville, S. C.
Tiberio, Henry Richard TC N 2	Malden, Mass.
Tichenor, Charles Beckham TC N 2	Indianapolis, Ind.
Tiderman, Otto Darby TC N 1	Muncie, Kan.
Tierno, Anthony Joseph TC N 2	Brooklyn, N. Y.
Timm, Edwin John TC N 7	Cedar Rapids, Iowa
Timpone, Peter Joseph TC N 4	Staten Island, N. Y.
Tinsley, James Weller TC N 1	Huntington, W. Va.
Tisdale, John Byrom TC M 6	Crestview, Fla.
Titman, Theodore David TC N 1	Baltimore, Md.
Tolle, Howard Kennard TC N 1	Dayton, Ohio
Tolles, Clifford Raymond EC N 4	West Haven, Conn.
Tompkins, Christopher TC M 8	Washington, D. C.
Toole, Charles Eugene TC N 1	Flossmoor, Ill.
Toomey, Thomas Murray EC M 6	Washington, D. C.
Tope, Donald Robert EC C 5	Burgettstown, Pa.
Torgerson, Torger Edward TC N 1	Duluth, Minn.
Trace, Keith B., Jr. TC N 3	Detroit, Mich.
Trapani, Umberto Luigi EC M 6	Savannah, Ga.
Trimble, James, III TC C 2	Washington, D. C.
Trimble, Lee Shackleforde TC M 6	Macon, Ga.
Trollinger, Joseph Lindsey TC N 4	Charlotte, N. C.
Trovato, Raymond Robert TC N 4	Larchmont, N. Y.
Tucker, James Arnold TC N 2	Winterset, Iowa
Tuckerson, Sidney Hugo TC N 2	Sayreville, N. J.
Turner, Clifford Mack TC M 4	Coeburn, Va.
Turner, James Homer TC N 6	Tampa, Fla.
Turner, Kenneth Moten TC N 4	Durham, N. C.
Tuttle, James Gray TC C 4	Raleigh, N. C.
Tuttle, Roger Dinsmore TC N 4	West Palm Beach, Fla.
Uhl, Joseph Louis TC N 1	Columbus, Ohio
Uhl, Richard Duryea EC N 4	Glenside, Pa.
Upshaw, James Claud TC N 6	Coral Gables, Fla.
Van Camp, George David EC C 2	Southern Pines, N. C.
Van Clief, John Richard TC N 1	Winter Haven, Fla.
Van Eepoel, Robert Peter EC C 3	Tampa, Fla.
Van Leer, Blake Wayne EC N 4	Washington, D. C.
Van Leer, Ira Isaac TC M 4	New York, N. Y.

Van Schoik, Dickson Moore TC N 1	Columbus, Ohio
Vaughan, Clement Slusher TC M 6	Floyd, Va.
Vaughan, Lemuel Wilmer EC N 3	Norfolk, Va.
Vegliante, Neal John TC N 4	Hamden, Conn.
Vehe, Robert Richard TC N 8	Chicago, Ill.
Venable, Samuel Woodson EC C 6	Durham, N. C.
Vickers, Lawrence Otis TC C 2	Miami, Fla.
Vildibill, James William TC N 4	Columbia, S. C.
Villaneuva, Charles Edward EC C 2	Orange, N. J.
Vogel, John Edwin, Jr. TC N 1	Chicago, Ill.
Vollmer, Myles LeRoy TC N 2	Lewiston, Pa.
Vorhes, Carl Edwin TC N 1	Marshalltown, Iowa
Wade, Gerald Wear EC M 6	Birmingham, Ala.
Wade, Henry Ormond TC N 2	Morehead City, N. C.
Waggoner, Lonnie Austine, Jr. TC N 4	Charlotte, N. C.
Wagner, Arthur Wallace TC N 2	Belleville, Ill.
Wagner, Michael Joseph TC N 1	Baltimore, Md.
Waide, Merrill, Jr. EC M 6	Miami, Fla.
Walker, Cecil George TC N 1	Lincoln, Nebr.
Walker, Gordon Rexal EC N 3	Spindale, N. C.
Walker, I. C. TC C 4	Woodland, Ga.
Walker, Robert Gentry TC CG 4	Tuttle, Okla.
Walker, Woodrow Wilson TC N 6	Burlington, N. C.
Wall, Fletcher Hobson, Jr. TC N 4	Lexington, N. C.
Wall, Henry Frederick TC N 2	Dorchester, Mass.
Wallace, John Dixon, Jr. TC C 1	Charlotte, N. C.
Wallis, Donald TC C 1	Morrisville, Pa.
Walter, Robert Wheaton TC M 4	Port Washington, N. Y.
Walters, Robert George TC N 1	Chicago, Ill.
Wansker, Bernard Arthur TC C 2	Macon, Ga.
Wansker, William Charles TC N 6	Macon, Ga.
Ward, Frank Fordham TC N 4	Montclair, N. J.
Ward, John Amburn EC C 1	Walkertown, N. C.
Ward, Ralph Holmes, Jr. TC N 1	Quincy, Mass.
Ware, John Monroe TC C 1	Dallas, Texas
Warner, Tim Goode TC C 2	Greensboro, N. C.
Warren, Harry Oliver, Jr. TC M 6	San Francisco, Calif.
Warren, James Gates TC M 6	Washington, D. C.
Warren, Joseph Benjamin TC N 3	Lenoir, N. C.
Warren, Max Gerald TC C 6	Raleigh, N. C.
Warriner, William Arundale TC M 7	Pontiac, Mich.
Washer, Robert Ralph TC C 4	Scranton, Pa.
Waters, Joe Frazier TC N 4	Johnstown, Pa.
Wates, Byron Ernest EC M 8	Haleyville, Ala.
Watkins, John Mauldin TC N 3	Greenwood, S. C.
Watson, Charles Spiginer TC M 8	Columbia, S. C.
Watson, Frank Yandle TC N 2	Charlotte, N. C.
Watson, George Wesley TC N 1	Lincoln, Nebr.
Watson, Lucien Whitehead, Jr.	Marianna, Fla.
Watson, Penn Thomas TC N 2	Wilson, N. C.
Watson, William Wood TC N 4	Eastham, Mass.
Watt, Edwin Glenn TC N 6	Charlotte, N. C.
Watt, William Vance TC N 4	Thomasville, Ga.
Watts, Arthur Lee TC N 6	Huntington, W. Va.
Watts, Robert Johnson TC N 4	Louisville, Ky.
Weatherly, Carl Holmes, Jr. TC C 2	Leaksville, N. C.
Weatherly, Joe Elwood TC N 4	Elizabeth City, N. C.
Weathers, Jimme Lee TC C 1	Shelby, N. C.
Weaver, Laury King, Jr. TC N 1	Chattanooga, Tenn.
Weaver, Robert Lee TC N 4	Drexel Hill, Pa.

Weber, Arthur John TC C 2	Cumberland, Md.
Webster, Cletus Warren EC M 6	Dayton, Va.
Wechsler, Harry Leon TC N 6	McKeesport, Pa.
Wechsler, Leonard Burton TC C 2	McKeesport, Pa.
Weddington, Robert Lee EC N 1	Charlotte, N. C.
Weeks, Joe Richard TC N 3	Clarksdale, Miss.
Weeks, Rufus Heywood TC N 4	Charlotte, N. C.
Wehrle, Robert Edmund TC M 1	Massillon, Ohio
Weil, Richard Allen TC M 5	Pittsburgh, Pa.
Weinberg, Milton, Jr. TC N 6	Sumter, S. C.
Welch, Elbert Sylvester TC N 3	Bessemer, Ala.
Wells, David Allen TC N 4	Hapeville, Ga.
Wells, John David TC N 1	Elmdale, Kan.
Wells, Richard Parkinson TC N 2	West Orange, N. J.
Wells, William Charles V., Jr. TC N 2	Delanco, N. J.
Wells, William Eston (Dick), Jr. TC C 1	St. Petersburg, Fla.
Wells, William Miles, Jr. TC C 4	Wilson, N. C.
Welton, Robert Glenn TC M 6	Ellwood City, Pa.
Werner, Alfred Martin TC M 8	New York, N. Y.
Werner, Robert Eugene EC M 8	Altoona, Pa.
Wescoat, Max Clifton TC N 1	Harris, Mo.
West, James Arthur, Jr. TC N 4	Wilmington, N. C.
Westmoreland, Larry Elmo, Jr. TC N 2	Canton, N. C.
Wetle, Robert Calvin TC N 1	West McHenry, Ill.
Whalen, William Anthony TC C 2	New Britain, Conn.
Wheatley, William Howard TC N 2	Chestertown, Md.
Wheeler, John TC N 4	Ridgewood, N. J.
Whisnant, Louis Rodney TC M 4	Lenoir, N. C.
Whitaker, Seth Warner EC C 2	Windsor, Conn.
Whitaker, Thomas Early TC C 6	Oak Ridge, N. C.
White, Francis Earl TC M 6	Orlando, Fla.
White, John Joseph, Jr. TC M 5	New Orleans, La.
White, John Mercer TC N 3	Richmond, Va.
White, Weyman Erasmus TC N 2	Savannah, Ga.
Whitlock, James Dale TC N 1	Dallas, Texas
Whitney, John Butler TC M 2	Quantico, Va.
Whitney, William Raymond TC M 6	Arlington, Va.
Whittington, James Gordon, Jr. TC N 2	Kannapolis, N. C.
Whyte, Donald Leslie TC N 4	Princeton, N. J.
Wicker, Max William TC N 1	Aberdeen, N. C.
Wickstrom, Ralph Lee TC N 1	Sioux City, Iowa
Widerman, William Davis EC N 6	Haddonfield, N. J.
Wiggins, Eugene Selby, Jr. TC M 8	Richmond, Ky.
Wiggins, Ford Carroll TC N 6	Lawrenceville, N. J.
Wilbur, Charles Roger EC C 1	Durham, N. C.
Wilbur, Robert Lynch EC C 1	Durham, N. C.
Wilchins, Lawrence Jack TC C 4	Cincinnati, Ohio
Wilcox, Gerald Eugene TC N 2	Wautoma, Wisc.
Wilcutts, Franklin Gardner TC N 1	Collingdale, Pa.
Wile, Peter Edwin TC N 4	New York, N. Y.
Wilkie, Arthur Richard, Jr. TC N 6	Manchester, Conn.
Wilkie, David Blaine TC N 1	Abilene, Kan.
Wilkin, Robert Allison EC C 1	Columbus, Ohio
Wilkins, Howard Coles TC N 5	Pine Bluff, Ark.
Wilkinson, Kenneth Lee EC N 5	Pocomoke City, Md.
Willett, Robert Walter TC N 4	New York, N. Y.
Williams, Arthur Joseph, Jr. TC N 1	Washington, D. C.
Williams, Claude Bernard, Jr. EC N 7	Durham, N. C.
Williams, Deyo Joseph TC M 5	Jacksonville, Fla.
Williams, Edgar Donald, Jr. EC N 4	Durham, N. C.

Williams, Eugene Ward TC N 1	Cincinnati, Ohio
Williams, Jack Newton TC C 1	Charlotte, N. C.
Williams, John Kerr EC N 6	Charlotte, N. C.
Williams, Paul Francis TC N 1	Tampa, Fla.
Williams, Reid Claude TC N 5	Fallston, N. C.
Williams, Roger Davis TC C 4	Charlotte, N. C.
Williams, Roy Samp TC N 4	Miami, Fla.
Williams, Si Julian EC M 5	Evanston, Ill.
Williams, Spencer Benjamin TC N 2	Norfolk, Va.
Williams, Thomas Duke EC C 2	Augusta, Ky.
Williams, Wade Hampton, Jr. TC N 4	Charlotte, N. C.
Williams, William Swinney EC M 4	Lynchburg, Va.
Williamson, Daniel Lester, Jr. EC N 1	Wilmington, N. C.
Williamson, John Samuel TC M 3	Hamlet, N. C.
Williamson, Max LaVern TC N 1	Creston, Iowa
Willing, George Clifford TC N 1	Harvey, Ill.
Willis, David Steel, Jr. TC C 8	Raleigh, N. C.
Willis, Joseph William EC N 4	Ft. Lauderdale, Fla.
Willis, Robert Kyle TC N 1	Phoebus, Va.
Willoughby, Robert Earl TC C 4	Detroit, Mich.
Wilson, James Ernest TC N 1	Cumberland, Md.
Wilson, Joseph Richard Hoyle EC N 3	Atlanta, Ga.
Wilson, Leo Hughes TC N 8	Bradenton, Fla.
Wilson, Leonard Truman TC C 1	Rowland, N. C.
Wilson, Lewis Holliday, Jr. EC N 9	Greensboro, N. C.
Winberry, Herman Stanford TC C 6	Mt. Olive, N. C.
Wimbrow, Charles Samuel TC N 4	Bridgeville, Del.
Windham, Theron Johnson TC N 4	Columbus, Ga.
Winfield, Robert Allen TC N 3	Fort Wayne, Ind.
Wingfield, Robert Terrell TC N 4	Lynchburg, Va.
Wintner, Stuart Armin TC N 4	Shaker Heights, Ohio
Wise, Russell Clarence EC N 4	Wheeling, W. Va.
Wismer, Richard Cummings TC N 1	Benedict, Nebr.
Witcover, David Carl TC C 2	Bethesda, Md.
Witzel, Henry Fred TC M 4	Maplewood, N. J.
Wofford, J. Brian TC N 1	Spartanburg, S. C.
Wolf, Theodore Frederick TC M 3	Minneapolis, Minn.
Wolfe, Joseph Garland TC M 8	Greensboro, N. C.
Wolfe, William Raymond TC N 4	Verona, Pa.
Wolff, Robert Stanley TC N 4	Rhodesdale, Md.
Wolff, Thomas Conrad, Jr. TC N 4	Baltimore, Md.
Wood, Clarence Robert, Jr. EC C 4	Durham, N. C.
Wood, George Wilburn EC M 4	Overland, Mo.
Wood, James Edwin TC N 4	Charlottesville, Va.
Wood, James Robert TC N 4	Norfolk, Va.
Wood, Paul Andrew EC M 2	Gary, Ind.
Woodall, Charles Marion TC M 6	Moultrie, Ga.
Woodall, Jacob Augustus, III TC N 2	Durham, N. C.
Woodbridge, Earl Byron, Jr. TC N 4	Tamaqua, Pa.
Woodrow, Gerald James TC N 2	Chicago, Ill.
Woodruff, John Graham EC C 4	Winston-Salem, N. C.
Woods, Mark Andrew TC C 2	Bluefield, W. Va.
Woodward, Willys Lee TC N 1	Fulton, N. Y.
Woolard, Jodie Dee, Jr. TC N 2	Williamston, N. C.
Wooley, Philip Monroe EC C 1	Southern Pines, N. C.
Wooten, John Lemuel TC C 6	Greenville, N. C.
Wright, Rollin Gene TC M 2	Van Nuys, Calif.
Wright, William Albert, Jr. TC C 2	Youngstown, Ohio
Wright, William Charles TC N 1	Shillington, Pa.
Wright, William Hobart, Jr. TC M 6	Knoxville, Tenn.

Yancey, Clyde Campbell TC C 2	Greensboro, N. C.
Yantis, Earl Edward TC N 6	Atlanta, Ga.
Yard, Chester Arthur TC N 4	Webster Groves, Mo.
Yautz, George Steven EC N 6	New York, N. Y.
Yegge, Lawrence Raymond EC N 1	Boone, Iowa
Yochum, Joseph Karl TC N 1	Sinking Spring, Pa.
York, Charles Irving TC N 1	Washington, D. C.
Young, Charles Aldo TC N 6	Riverside, N. J.
Young, Julius Osborne, Jr. TC M 4	Winston-Salem, N. C.
Young, William Glenn TC N 4	Washington, D. C.
Young, William Lowell TC N 2	Frederick, Md.
Yount, Paul Wesley TC N 2	Charlotte, N. C.
Zakrzewski, Thomas Francis TC N 1	Buffalo, N. Y.
Zarracina, Allan Americus EC M 3	Cherry Point, N. C.
Zega, Lester Walter TC N 4	Plainfield, N. J.
Zellmer, Milton Robert TC N 1	Chicago, Ill.
Zemer, Robert Field TC N 4	Highland Park, Mich.
Zengel, Edward Anthony TC N 6	Ridgefield, N. J.
Ziegler, Cleo Taylor TC M 6	Bigspring, Tenn.
Zimmerman, Jacob Shelly TC N 3	Marshall, N. C.
Zion, Robert William EC M 6	Philadelphia, Pa.
Zitomer, Joseph TC N 1	Washington, D. C.
Zlomke, Dick Howard TC N 1	Grand Island, Nebr.
Zoeller, Robert Royce EC M 2	Milwaukee, Wisc.
Zultner, Richard Ernst TC N 1	Chicago, Ill.
Zumberge, James Herbert TC M 4	Minneapolis, Minn.

July 1, 1943-October 23, 1943

TC indicates Trinity College and EC College of Engineering. Letters denote classification: C, Civilian; N, Navy; M, Marine; CG, Coast Guard. Number shows semester in progress

Abbitt, Joy Bartell TC N 1	Madison Heights, Va.
Abbot, William Brimberry TC N 7	Louisville, Ga.
Abramson, Richard Arlen TC C 1	New York, N. Y.
Acherman, Walter Lane TC N 1	Washington, D. C.
Adams, John Martin EC M 6	McKenzie, Tenn.
Adams, William Hester, III TC C 2	Atlantic Beach, Florida
Adamson, Jack Everett TC N 1	South Pasadena, Calif.
Aitken, Theodore Bird EC C 6	Wyndmoor, Pa.
Albertson, Nial Brodhead TC N 3	Philadelphia, Pa.
Alexander, Henry Clifford, Jr. TC C 1	Charlotte, N. C.
Alexander, Johnny Franklin TC C 6	Meridian, Miss.
Alexander, Roy L. TC N 2	Englewood, New Jersey
Alexander, William Coburn EC N 3	Durham, N. C.
Allder, James Gordon TC N 1	Fairfax, Va.
Allen, Bouva Closson, Jr. TC N 1	Raleigh, N. C.
Allen, Louis Carr, Jr. TC N 3	Burlington, N. C.
Allen, Roy Earl TC M 7	Lakeland, Ga.
Allen, Spencer Turner TC N 3	Milton, Fla.
Allen, Ulric Earl, Jr. EC N 5	Portsmouth, Va.
Allman, Russell Vernon, Jr. TC N 7	Detroit, Mich.
Allsopp, Richard Howard TC N 5	Lakeland, Fla.
Ambrose, Kenneth Eugene TC N 1	Oblong, Ill.
Ambrose, Robert Brown TC N 5	Woodstock, Va.
Ambrose, Samuel Sheridan, Jr. TC C 7	Conway, S. C.
Andersen, Edward Walter, Jr. TC M 5	Arlington, Va.
Anderson, John Irvin TC M 7	Burlington, Ky.
Anderson, John Powell TC C 1	Lynchburg, Va.
Anderson, Johnny Jeff TC M 1	Tulsa, Okla.

Anderson, Robert Alvin TC N 3	Proud, Utah
Anderson, William Frank TC M 6	Andalusia, Ala.
Andrews, George Reid, Jr. TC C 7	Mt. Gilead, N. C.
Andrews, Henry Leland, Jr. TC C 1	Greenville, N. C.
Andrews, Richard Selby EC N 5	New Haven, Conn.
Angelis, James Wesley TC M 3	Wheeling, W. Va.
Angier, Newton Duke TC C 2	Durham, N. C.
Anthony, Edwin Leon EC N 3	Binghamton, N. Y.
Appleby, William Robert TC M 1	Dallas, Texas
Arford, James Albert TC N 1	Stone Lake, Wisc.
Armour, John EC C 9	River Forest, Ill.
Armstrong, Elijah Durham, Jr. TC N 1	Beckley, W. Va.
Armstrong, Howard Gene TC N 1	Washington, D. C.
Armstrong, Robert Allen TC N 3	Morgantown, W. Va.
Armstrong, Thomas Christian, Jr. TC M 3	Richmond, Va.
Arnesen, Milton Nass TC N 7	Staten Island, N. Y.
Arnest, Richard Turberville, Jr. TC N 3	Oldhams, Va.
Arnold, James Davis EC M 6	Hattiesburg, Miss.
Arnold, James Schoonover TC C 3	Chicago, Ill.
Arnold, Reginald Seymour EC M 1	Wosonoco, Mass.
Arrowsmith, Dirck Walton TC N 3	Atlanta, Ga.
Artley, James Meredith EC M 3	Savannah, Ga.
Ashby, Rufus TC N 3	Durham, N. C.
Ashe, Henry Stansbury TC N 6	Pittsburgh, Pa.
Ashmore, Frank Leon TC N 1	Greenville, S. C.
Atkins, Robert Myrick TC N 2	Paragould, Ark.
Atkinson, Kendall Stewart, Jr. TC M 5	Roanoke, Va.
Aukward, Joseph Aloysius TC N 6	Washington, D. C.
Aycock, Thomas Malcolm, Jr. TC N 1	Durham, N. C.
Ayres, William McNeill EC M 7	Memphis, Tenn.
Baer, Harry Robert EC N 3	Youngstown, Ohio
Bailey, Thomas Liggett, Jr. TC N 5	Lake Worth, Fla.
Bailey, William Elroy TC N 3	Chadbourn, N. C.
Bailey, William Francis TC M 5	Knoxville, Tenn.
Balitsaris, George Peter TC M 3	Pittsburgh, Pa.
Ball, James Herbert, Jr. EC N 2	Winston-Salem, N. C.
Ballard, Charles Kale TC M 5	Mt. Holly, N. C.
Ballenger, Clarence Eugene, Jr. TC M 7	Spartanburg, S. C.
Barbour, Arthur Alexander, Jr. TC N 1	Arlington, Va.
Barden, Graham Arthur, Jr. TC N 5	New Bern, N. C.
Barger, James Willard TC CG 1	Graysville, Tenn.
Barnes, David Arlie TC N 1	Rochester, Minn.
Barnes, George William TC M 1	Petersham, Mass.
Barnes, Jimmy Allan TC N 1	Kings Mountain, N. C.
Barnes, Martin Luther, Jr. TC M 5	Gastonia, N. C.
Barnes, Olin Beall, Jr. TC M 6	Birmingham, Ala.
Barnette, John Henry EC M 5	Selma, Ala.
Barney, Philip TC M 7	Petersburg, Va.
Barone, Nathaneil LaDuca, Jr. TC C 5	Jamestown, N. Y.
Barr, Ralph Harless TC M 7	Covington, Va.
Barra, Peter Philip EC M 1	Boston, Mass.
Barrett, Marshall Adrian TC N 5	Glen Ridge, N. J.
Barrineau, William Eugene TC M 7	Cairo, Ga.
Barrows, Robert Knight TC N 7	Waterbury, Conn.
Bartlett, William Herman EC C 3	Charlotte, N. C.
Barton, Taylor Jefferson TC M 2	San Angelo, Texas
Basnight, Miller Carawan TC M 7	New Bern, N. C.
Baugh, George Herman TC M 7	Charlotte, N. C.
Baugh, Neale Wesley TC N 7	Detroit, Mich.
Baum, Edwin Forster TC C 1	Danville, Va.

Bayman, Charles Richard EC N 5	North Charleston, S. C.
Beale, Walter Henry, Jr. EC M 5	Potecasi, N. C.
Beall, Curtis Alton TC M 7	Brewton, Ga.
Beaman, Nathaniel, III TC N 2	Norfolk, Va.
Beaman, Robert Prentis, Jr. TC N 3	Norfolk, Va.
Beamer, Elbert Ernest TC C 7	Mt. Airy, N. C.
Bean, William Randall TC C 1	Marshfield, Mass.
Beary, Franklin David EC C 7	Pittsburgh, Pa.
Beatty, John Joseph, III TC N 4	Washington, D. C.
Beaudouin, Harry Edward, Jr. TC N 3	Hewlett, N. Y.
Bebell, Charles Jacob EC N 3	Toronto, Canada
Becker, Irwin William EC M 1	Burlington, Vt.
Becker, William Frederick EC N 2	Nutley, N. J.
Beddingfield, Richard Jackson TC N 3	Manhasset, N. Y.
Beer, George Nicholas EC N 7	Rochester, N. Y.
Beer, Robert Augur EC N 3	Washington, D. C.
Belk, Henderson TC N 3	Charlotte, N. C.
Bell, William Seaman TC C 5	Jersey City, N. J.
Benavides, Jaime Miguel TC C 7	Long Island, N. Y.
Bennett, Edgar Bowling EC N 3	Richmond, Va.
Bennett, Talbott Flavus, Jr. TC M 8	Augusta, Ga.
Benoit, Edward Rosario TC M 1	Indian Orchard, Mass.
Benoy, Arthur Warren TC N 3	Shelby, N. C.
Benskin, George Henry, Jr. EC M 3	Quantico, Va.
Benson, Rupert Lee, Jr. TC C 1	Wrightsville Beach, N. C.
Bentley, Walter John, Jr. TC N 5	Bement, Ill.
Beres, Herbert TC C 3	Lynbrook, N. Y.
Berngard, Lawrence Jay TC N 3	Chicago, Ill.
Bernhardt, George Lynn TC M 3	Lenoir, N. C.
Berry, Frederick Hamer TC C 8	Staunton, Va.
Betts, Wilmer Conrad TC N 2	Raleigh, N. C.
Biggs, Dennis Walter TC N 1	Lumberton, N. C.
Billings, Charles Kelso TC M 5	Cookeville, Tenn.
Billingslea, Robert Kerr, Jr. TC M 5	Westminster, Md.
Binda, Herbert Joseph, Jr. TC M 1	Medford, Mass.
Bisceglia, Joseph Gregory TC N 6	Harrison, N. Y.
Bishop, Frederick Ralph TC M 1	North Attleboro, Mass.
Bishopric, George Andrew TC C 1	Spray, N. C.
Black, William Mock EC N 7	Durham, N. C.
Blake, John Ronald, Jr. TC C 1	Washington, D. C.
Blalock, John Vernon TC C 7	Durham, N. C.
Blanchard, Charles Fuller TC N 5	Raleigh, N. C.
Blanchard, William Garland EC C 3	Hertford, N. C.
Blanton, Setwart Bennett EC N 2	Charlotte, N. C.
Bledsoe, Eugene Franklin, Jr. TC M 6	Memphis, Tenn.
Bliss, Verne Fairbanks TC M 5	Salem, Va.
Block, Mervin Judah TC N 3	Chicago, Ill.
Bloom, Henry Tucker TC M 7	Camden, N. J.
Blount, Loyd Lamar TC M 7	Philadelphia, Miss.
Boardman, William Covert TC N 7	Fair Haven, N. J.
Bodtke, Roland Henry TC N 1	Richmond, Va.
Boggs, Lawrence Kennedy TC N 2	Birmingham, Ala.
Bond, Jean Bernerd TC C 7	Durham, N. C.
Bond, William McCambridge TC N 5	Washington, D. C.
Booth, Richard Gene TC C 3	Welch, W. Va.
Borbely, James Andrew TC M 5	New Brunswick, N. J.
Bosca, Mario Elmo EC N 8	Springfield, Ohio
Bost, David Eugene TC N 2	Concord, N. C.
Boston, John Armistead, Jr. TC N 3	Atlanta, Ga.
Bounds, Jack Darwin TC N 5	Knoxville, Tenn.

Bourne, Chester Winfield Layton TC M 7	Quantico, Va.
Bowen, Carroll Westley TC M 5	Salisbury, N. C.
Bowen, Harold West TC M 5	Salisbury, N. C.
Bowen, James Lamar TC C 1	Westminster, S. C.
Boy, James William EC C 1	Durham, N. C.
Boyce, Floyd Thomas TC N 1	Jackson, N. C.
Boyd, Benjamin Franklyn TC C 3	Panama City, Panama
Boyd, Carl Willard TC M 7	Dalton, Ga.
Boyles, Paul Weldon TC C 3	Gibsonville, N. C.
Bradley, Fred Esten TC N 1	Asheville, N. C.
Bradshaw, James Martin EC M 6	Montgomery, Ala.
Brady, Richard Dorton, Jr. TC M 5	Crossville, Tenn.
Brandon, Guilbert Le Page EC C 5	Memphis, Tenn.
Brandt, Murray Denis TC M 7	Brooklyn, N. Y.
Branfield, Earl Wayne TC N 4	Alliance, Ohio
Brannan, George King TC N 5	Washington, D. C.
Branscomb, Lewis McAdory TC C 2	Durham, N. C.
Braswell, Charles Clarence EC C 3	Durham, N. C.
Bratton, John, Jr. EC M 7	Raleigh, N. C.
Brawner, Hugh Page TC C 1	Washington, D. C.
Breen, George TC CG 8	Brooklyn, N. Y.
Brenna, Anthony TC C 7	Trenton, N. J.
Brewer, Norman Everett TC N 1	Pomona, N. C.
Briggs, Ronald Urton TC N 3	Dayton, Ohio
Bright, Turner Newton EC N 3	Bardstown, Ky.
Brilhart, Gladden Loats EC C 8	Baltimore, Md.
Brillhart, Robert Ross TC M 5	Napoleon, Ohio
Brinkley, William Lambreth, Jr. TC C 4	Greensboro, N. C.
Bristow, Elmer Linwood TC M 5	Petersburg, Va.
Brittingham, John Sleming, Jr. TC N 2	Victoria, Va.
Broadfield, Ward Holt, Jr. EC C 3	Cartersville, Ga.
Broadwell, Clyde Herbert TC N 1	Calhoun Falls, S. C.
Brock, Charles Lee TC N 5	Asheville, N. C.
Brockway, George Lemuel, Jr. EC N 5	Cherry Point, N. C.
Brogan, Edwin Bernard TC C 7	Atlanta, Ga.
Brooks, Jack Martin EC N 3	Hilton Village, Va.
Brooks, Keith TC N 1	New Castle, Pa.
Brooks, Russell Bryant TC M 7	Owensboro, Ky.
Brooksbank, James Jeffery TC N 1	Washington, D. C.
Brorein, William Jacob EC N 5	Tampa, Florida
Broughton, Joseph Melville, Jr. TC M 7	Raleigh, N. C.
Broughton, Walter Thomas, Jr. TC N 3	Mt. Holly, N. C.
Browder, Joseph Garrott EC N 3	Charlotte, N. C.
Brower, Armstead Jackson, Jr. TC N 7	Liberty, N. C.
Brown, Allan Maurice TC N 3	Chicago, Ill.
Brown, Arthur Randolph TC M 1	Richmond, Va.
Brown, J. Colvin, Jr. TC C 1	Waynesville, N. C.
Brown, Gaines Eggar TC N 1	Gastonia, N. C.
Brown, James Vernal TC M 7	Yolyn, W. Va.
Brown, Lee Buckingham TC N 3	Norfolk, Va.
Brown, Luther Adolphus EC M 5	Washington, D. C.
Brown, Norman Macleod EC C 7	Swickley, Pa.
Brown, Stansel Alman, Jr. TC M 5	Birmingham, Ala.
Brown, Walter Lyons TC N 3	Charlottesville, Va.
Browning, James Richardson TC C 1	Whiteville, N. C.
Browning, James Robert TC N 5	Windber, Pa.
Bruce, James McDuffie TC M 7	Greenville, S. C.
Brusenhan, Curtis Eugene TC M 1	Coleman, Texas
Bryan, William Arnold, Jr. TC C 3	Durham, N. C.
Bryan, William Joe TC N 1	Rockford, Ill.

Bryans, Robert Lee, II TC C 1	Pensacola, Fla.
Buccolo, Philip Jerome TC M 1	New Rochelle, N. Y.
Buchanan, Fitzhugh Lee TC M 1	Portsmouth, Va.
Bucher, Elwood Ray, Jr. TC C 1	Charlotte, N. C.
Buckle, James Robert TC M 7	Binghamton, N. Y.
Buckley, Allen Ferguson TC N 5	Columbia, S. C.
Buckley, Donald Bright TC N 3	Washington, D. C.
Buckman, Edmund Tayloe, Jr. TC C 1	Washington, N. C.
Buckner, Troy Odell EC M 5	Biltmore, N. C.
Bumgardner, Erastus Gaither TC C 7	Columbia, S. C.
Burg, Louis TC M 7	Brooklyn, N. Y.
Burke, Edward Walter, Jr. EC M 1	Lynn, Mass.
Burkhouse, Ralph Eugene, Jr. TC N 1	Pittsburg, Pa.
Burlew, Robert Wesley TC C 4	Matawan, N. J.
Bursian, Tirso Cesar TC C 1	Santurce, Puerto Rico
Burton, John Ray EC M 3	Richmond, Va.
Burton, William Hawley TC M 1	North Bennington, Vt.
Burwell, George Ernest, III TC N 2	Spartanburg, S. C.
Bush, Albert Jackson TC M 3	Jacksonville, Fla.
Butler, William Powers TC N 3	Washington, D. C.
Butler, William Stanton TC N 3	Little Neck, N. Y.
Byam, Robert Spaulding TC M 7	Lowell, Mass.
Byrd, John William TC N 8	Columbia, S. C.
Byrne, Hugh David TC M 5	Chicago, Ill.
Cabero, George Nicholas TC C 1	Hawkinsville, Ga.
Caldwell, Lawrence Carlton, Jr. EC C 1	Richmond, Va.
Caleo, Leon Joseph TC M 3	Norfolk, Va.
Calhoun, Clinton Warren, Jr. EC N 7	Richmond, Va.
Callahan, Daniel John TC N 5	Concord, Mass.
Callaway, Richard Fuller EC M 7	Henderson, N. C.
Calos, Gust Efstratios TC M 3	Danville, Va.
Calvert, George Edward TC N 7	Lynchburg, Va.
Cameron, Angus McKay TC C 1	Vass, N. C.
Campbell, Alton Gailey TC N 8	Raleigh, N. C.
Campbell, Claude Waldrue TC N 3	Durham, N. C.
Campbell, William Eason TC M 5	Coral Gables, Fla.
Canady, Lloyd Edward, Jr. TC C 1	Raleigh, N. C.
Canine, William Leland, Jr. TC M 7	Kalamazoo, Mich.
Cannon, Alvin Fallin TC M 8	Brighton, Tenn.
Cannon, James Edmerson EC N 3	Gainesville, Fla.
Carkhuff, Edwin Dixon TC M 9	Marianna, Fla.
Carlton, Everette Leroy TC M 5	Winston-Salem, N. C.
Carmichael, Clifford EC N 3	Clifton, N. J.
Carosi, Nicholas John TC N 3	Washington, D. C.
Carpenter, Robert Murray EC N 3	Hagerstown, Md.
Carr, John Weber EC C 8	Durham, N. C.
Carr, Sanford Perry, Jr. TC M 9	Dalton, Ga.
Carrington, William George TC N 1	Nelson, Va.
Carroll, Stephen Wall, Jr. TC N 3	Paterson, N. J.
Carroll, Woodrow Wilson TC N 7	Washington, D. C.
Carson, Jack Oliver TC C 1	Bethel, N. C.
Carson, John Spencer EC M 3	Richmond, Va.
Carswell, William DuPree TC C 1	Raleigh, N. C.
Carter, Donald Dean TC N 2	Erwin, Tenn.
Carter, Edward Fennel TC N 1	Erie, Pa.
Carter, James Edward EC C 3	Durham, N. C.
Carter, Wilton Snowden TC C 6	Pikesville, Md.
Carver, Gordon Malone, Jr. TC N 6	Durham, N. C.
Cash, Leon Hartsell TC N 5	Winston-Salem, N. C.
Castle, Edwin Robert TC M 5	Rome, N. Y.

Castro, Bennie TC M 5	Tampa, Fla.
Cates, Brawner, Jr. EC M 7	Richmond, Va.
Cates, James Marion TC C 1	Charlotte, N. C.
Cathers, Bill DeWayne TC N 1	Huntington, Ind.
Cato, Ben Ralph, Jr. TC C 2	Charlotte, N. C.
Chambers, Chester Leslie TC N 3	Freeport, N. Y.
Chambers, Joseph Edward TC C 1	Whitesville, W. Va.
Chandler, Allan Estes TC M 7	Johnson City, Tenn.
Chandler, James Ryan TC C 5	Daytona Beach, Fla.
Chandler, John Kenneth TC M 5	Chattanooga, Tenn.
Chapin, Louis Edward TC N 2	Stafford, Va.
Chapman, John Edward, Jr. EC C 6	Charlotte, N. C.
Chapman, John William TC M 7	Logan, W. Va.
Chapman, Walter Hendley EC C 7	East Orange, N. J.
Chesnut, James Lyons, III TC C 5	Pittsburgh, Pa.
Chipley, Flake Bailey, Jr. TC C 2	Rocky Mount, N. C.
Christie, Walter TC N 5	Bergenfield, N. J.
Chrystal, David TC M 1	Poughkeepsie, N. Y.
Chuprevich, Joseph John TC M 5	Staten Island, N. Y.
Cittadina, Benjamin Nicholas TC N 5	Long Branch, N. J.
Clagg, James Arthur TC M 5	Huntington, W. Va.
Clair, James Paul TC N 3	Pittsburgh, Pa.
Clanton, William Selvan TC C 1	Charlotte, N. C.
Clark, Alan Dale TC M 3	Millville, N. J.
Clark, Allen Berkley TC M 3	South Boston, Va.
Clark, George Philemon TC N 2	Wilson, N. C.
Clark, Harry Githens TC M 5	Wadesboro, N. C.
Clark, Hubert Karl EC N 3	Durham, N. C.
Clark, Sherman Dockray TC C 5	New York, N. Y.
Clark, Stephen Chester, Jr. EC C 8	High Point, N. C.
Clark, William James, Jr. TC N 7	Homestead, Fla.
Clarke, Donnelly Royce TC N 1	Asheville, N. C.
Clarke, Howard Thomas TC M 5	St. Thomas, Ky.
Clarke, Len Gordon TC N 3	Draper, N. C.
Clary, William Martin TC N 1	Raleigh, N. C.
Clayton, Robert Douglas TC N 1	Newport News, Va.
Clear, James Robert EC M 1	Medford, Mass.
Clements, John Franklin TC M 7	Bunnell, Fla.
Clements, Lawrence Withers, Jr. TC M 1	Roanoke Rapids, N. C.
Close, Leland Grant TC C 1	Bryson City, N. C.
Close, Louis Barnes EC C 7	Wadsworth, Ohio
Cobb, George Everett TC N 2	Freehold, N. J.
Cocke, John EC N 2	Charlotte, N. C.
Coffey, John Roderic TC C 1	Newark, N. J.
Coggins, Wilmer Jesse TC C 3	Madison, Fla.
Colarusso, Joseph Rutley TC N 3	Long Island, N. Y.
Colby, John Arthur TC N 1	Springfield, Mass.
Cole, Edwin Herbert TC M 6	Miami Beach, Fla.
Cole, Gene Porter TC N 7	Charlotte, N. C.
Cole, Nathan, Jr. TC N 7	Wilmington, N. C.
Cole, Richard Shipley TC N 3	Norfolk, Va.
Colgan, Frank John TC C 1	Rochester, N. Y.
Collins, Charles Frederick EC N 4	Portsmouth, Va.
Collins, Warren James TC C 3	Comas, Wash.
Coman, James Hilary, Jr. TC N 7	Durham, N. C.
Coman, William Thomas EC N 2	Durham, N. C.
Comley, Robert Parker TC N 3	Irvine, Ky.
Compton, Robert Gary TC N 3	Bartow, Fla.
Cone, Lawrence Bentley TC N 5	Miami, Fla.
Connell, Calvin Charles TC M 1	Detroit, Mich.

Conner, Judson Jerome EC M 1	Hartford, Conn.
Connor, Bruce Kenneth EC M 6	Washington, D. C.
Conroy, Joseph Alphonse, Jr. TC N 3	Queens, N. Y.
Conry, Joe E., Jr. TC M 3	Cookeville, Tenn.
Conway, John Francis TC M 5	Jacksonville, Fla.
Cook, Glynn Leon TC M 6	Columbia, Miss.
Cook, Jere Kinney TC C 2	Charlotte, N. C.
Cook, John William TC M 3	Afton, Va.
Cook, Robert Edward TC N 2	Chicago, Ill.
Cook, William Edward TC M 1	Chicago, Ill.
Cook, William Walter, Jr. TC M 7	Dover, N. J.
Cook, Willis Floyd TC M 7	Camden, Ala.
Cooley, Edward Jensen TC N 3	Washington, D. C.
Coon, Elvin Ralph, Jr. EC M 1	Belmont, Mass.
Copeland, Leon Howard TC M 1	El Dorado, Kansas
Copley, Alden Gibson EC N 3	New Rochelle, N. Y.
Copley, James Thomas TC M 8	Weston, W. Va.
Coplin, James Elbert, Jr. TC M 5	Burlington, N. C.
Corwin, Richard Crane EC C 3	Toledo, Ohio
Cost, William McClellan TC C 1	Newport, R. I.
Cottam, Robert Thomas, Jr. EC C 1	High Point, N. C.
Council, William Christopher TC M 5	Durham, N. C.
Coursey, James Valdez EC M 6	Paducah, Ky.
Courtney, Thomas Marshall TC N 5	Winston-Salem, N. C.
Cowan, M. Kenneth TC C 1	Washington, D. C.
Cowan, Wesley DeWitt EC N 3	Gainesville, Fla.
Cowie, Franklin Garrett, Jr. EC M 2	Alexandria, Va.
Cowin, Robert Edwin TC N 3	Franklin, Pa.
Cox, Carlyle Lanneau TC M 5	Robersonville, N. C.
Cox, Carson Clay, Jr. TC C 1	Thomasville, N. C.
Cox, James Herbert EC N 3	Bridgeton, N. J.
Cox, James Howell TC N 2	Mt. Airy, N. C.
Cox, Roscoe Thomas, Jr. TC M 3	Greenville, N. C.
Craft, Clifford Justin, III TC M 1	Drexel Hill, Pa.
Crain, Richard Proctor TC C 1	Cincinnati, Ohio
Crane, Frank TC C 3	Detroit, Mich.
Crane, Richard TC N 5	Wayne, Pa.
Craver, Burke Hutchins TC C 5	Lexington, N. C.
Crawford, John Clifford TC N 6	Penacook, N. H.
Creel, Wrenn Miller TC N 1	Aberdeen, N. C.
Crenshaw, Roy Weldon TC M 5	Lanett, Ala.
Crews, Alton Cornelius TC N 1	Centerville, Ala.
Crittenden, William Cunningham TC N 6	Birmingham, Ala.
Cross, Jay Ralph TC C 1	Milton, Mass.
Crouch, Jodie Merle TC N 1	Bronson, Texas
Crowder, John Nathaniel TC N 1	High Point, N. C.
Cuff, Robert William TC N 2	Floral Park, N. Y.
Cullom, John Webster TC M 7	Chattanooga, Tenn.
Cunliff, Edward Hanpeter TC N 5	St. Louis, Mo.
Cummings, Jonathan Walkley EC M 1	Bennington, Vt.
Cunningham, Earl Wayman TC M 3	Tracy City, Tenn.
Cunningham, Meriwether Lewis TC N 3	Winston-Salem, N. C.
Currey, Russell Wallace TC M 1	Chelsea, Mass.
Currier, Richard Dustin TC N 3	Rye Beach, N. H.
Curry, Patrick Joseph TC N 5	St. Joseph, Mo.
Curtin, Walter Raymond TC N 7	Worcester, Mass.
Curtis, Charles Marshall EC N 5	Climax, N. C.
Cushwa, Victor, IV TC N 4	Williamsport, Md.
Cutchin, Danford Edmondson TC N 8	Whitakers, N. C.
Cutter, Ernest, Jr. TC N 5	Lexington, Mass.

Dacewicz, Leonard Norbert EC N 8	Baltimore, Md.
Dackis, William Charles EC C 6	Durham, N. C.
Dahl, James Marlin TC N 1	Brandon, Wis.
Dale, William Paul, Jr. TC M 7	Arlington, Mass.
Dalton, Craig Gates TC N 5	Toledo, Ohio
Danaher, Robert Cornelius TC N 6	Washington, D. C.
Daniel, Garland Sanderson, Jr. TC M 3	Lexington, Va.
Darden, Thomas Milton TC M 7	South Bend, Ind.
Davidson, John Campbell TC M 7	Miami, Fla.
Davis, Donald Harding TC N 1	Gastonia, N. C.
Davis, Edward Roy TC N 5	Scarsdale, N. Y.
Davis, George Thomas TC M 8	Wilson, N. C.
Davis, Kenneth Earl TC N 7	Tabor City, N. C.
Davis, Kermit Roosevelt TC M 9	Tuscaloosa, Ala.
Davis Robert Crittenden, Jr. TC N 1	Great Falls, Mont.
Davis, Thomas Harmon TC N 3	Scranton, Pa.
Davis, Wayne Edward TC N 1	High Point, N. C.
Davis, Wesley Smith TC N 5	Harrisburg, Pa.
Davis, William Archie, Jr. EC N 3	Charlotte, N. C.
Davison, Robert Henry TC N 1	Lynbrook, N. Y.
Day, Lewis Clyde TC C 3	Canton, Ga.
Dayvault, Nevin Edward EC M 7	Concord, N. C.
Deal, Joseph Douglas, Jr. EC N 2	Norfolk, Va.
Deas, Eugene Inman TC N 4	Richmond, Va.
Deas, Jules TC M 5	Charleston, S. C.
Deaton, Donald Burette TC N 1	Mooresville, N. C.
deButts, Dulany Forrest EC M 3	Easton, Md.
DeButts, William Edward TC M 5	Oak Park, Ill.
Decker, William Marshall TC M 5	White Plains, N. Y.
De Cosier, Linton Henry TC C 3	Dayton, Ohio
Deese, Charles Glenn TC N 1	Kannapolis, N. C.
Deets, Edward Henderson, Jr. TC N 1	Clarksburg, Md.
de la Guardia, Jaime TC C 1	Panama City, Panama
Delle Donne, Marseilles, Jr. TC M 3	Homestead, Pa.
Denneny, James Clinton, Jr. TC M 5	Fayette, Mo.
Denning, David Berrie TC C 1	Newberry, S. C.
Derwallis, Jerome Robert EC N 3	Newport, R. I.
DeVenoge, Harry Christopher TC N 3	Long Island, N. Y.
Devlin, Thomas Joseph, Jr. TC N 1	Philadelphia, Pa.
DeVore, Leonard Horton TC N 3	Cincinnati, Ohio
DeWitt, Peter Broomhead TC N 3	Grand Haven, Mich.
DeWitt, William Day EC N 7	Sheppard Field, Texas
Dibble, James Birney TC N 1	Auora, Ill.
Dibble, Philip Gage TC N 3	Birmingham, Mich.
Dickey, James Joseph TC M 6	Kings Mt., N. C.
Dillon, Grover Lee, Jr. EC C 5	Raleigh, N. C.
Dillon, Marcus Lunsford TC C 3	Lewisburg, W. Va.
DiMona, Joseph Michael TC N 5	Haddonfield, N. J.
Dinsmore, John Clarke EC M 7	Bell Buckle, Tenn.
Ditto, William Murchison EC M 7	Charlotte, N. C.
Dix, Everett Stewart TC M 5	Alexandria, Va.
Dixon, Harvey Henry TC C 1	Washington, N. C.
Dixon, John Milner EC N 3	Waterbury, Conn.
Dixon, Wright Tracy TC M 9	Wilmington, N. C.
Dmytryk, John Robert EC M 1	Westfield, Mass.
Doig, Calvin DeWitt TC N 3	Packanack Lake, N. J.
Dolan, Edwin Arthur, Jr. TC N 5	Maplewood, N. J.
Dolson, Thomas Lee TC N 3	New Castle, Pa.
Donohue, John Joseph TC N 5	Worcester, Mass.
Donahue, William Francis, Jr. TC M 5	Montgomery, Ala.

Donze, Charles Amedee, Jr. TC C 2	Philadelphia, Pa.
Doolan, Paul Delohery TC N 6	Hamden, Conn.
Dorman, Bruce Hugh TC N 3	Plainfield, N. J.
Dorsch, Frank Charles EC N 3	Wheeling, W. Va.
Dorton, Spero Pete TC C 1	Durham, N. C.
Doty, Fred Owen TC C 5	Old Hickory, Tenn.
Douglas, Robert Hazard TC M 7	Beckley, W. Va.
Dovell, Ray Harris TC N 3	New York, N. Y.
Doyle, Everett James TC N 5	Long Island, N. Y.
Doyle, Richard Lee EC C 3	Buffalo, N. Y.
Drake, Clarence TC C 1	Akron, Ohio
Drake, Fenton George, Jr. TC N 1	Springfield, Ill.
Dratz, Arthur Frederick TC N 5	Lynbrook, N. Y.
Drennon, William Duward TC M 7	Jesup, Ga.
Drummond, Douglas Jay TC N 1	Richmond, Va.
Dudenhoeffer, Daniel George TC N 3	Brooklyn, N. Y.
Duffy, William Joseph TC N 3	Spring Lake, N. J.
Duggins, Ray Brown EC M 5	Greeneville, Tenn.
Dulworth, Early Vaughn TC M 7	Greensburg, Ky.
Duncan, James Hampton TC N 1	Reidsville, N. C.
Dunn, Davis Henry EC N 5	Ridgewood, N. J.
Dunn, William Robert TC N 5	Atlanta, Ga.
Dunworth, Kenneth Leroy TC M 3	Ft. Lauderdale, Fla.
Durbin, Stephen Frank TC N 1	Altoona, Pa.
Dutton, William Wallace, Jr. TC M 5	Baltimore, Md.
Dworkis, Walter William TC M 9	Wilmington, Del.
Early, Albert Terry TC N 3	Welch, W. Va.
Easterling, John Garlick TC C 2	Rocky Mount, N. C.
Eastman, John Roger EC C 7	Bronxville, N. Y.
Eastman, Paul Reed TC N 3	Bronxville, N. Y.
Eaton, William Mellon TC C 1	New York, N. Y.
Eckerd, John Charles TC N 1	Taylorsville, N. C.
Echols, William Edward TC M 5	Nashville, Tenn.
Eckstrom, Simon Paul TC M 7	Titusville, Pa.
Edmondson, William Donald TC M 5	Tarboro, N. C.
Edmondson, John Rufus TC M 8	Jackson, Tenn.
Edwards, Ian Keith TC C 3	Abbeville, S. C.
Edwards, Ralph Pearson TC N 2	Charlotte, N. C.
Edwards, William B. TC N 5	Mt. Vernon, N. Y.
Ehrenfeld, William C. EC N 7	Flemington, N. J.
Elam, William Nile, Jr. TC N 2	Washington, D. C.
Elderkin, Walter Raymond TC N 3	Montclair, N. J.
Eldredge, Robert Breene EC M 1	Waterbury, Vt.
Elkins, Augustus Coolidge EC N 3	Durham, N. C.
Elliott, Austin Lafayette, Jr. TC N 1	Thomasville, N. C.
Elliott, Escalus Emmert, Jr. EC N 3	Durham, N. C.
Ellis, Charles Thomas, Jr. TC C 2	Pensacola, Fla.
Elmore, Henton Douglas TC M 7	Pansey, Ala.
Emerman, Maxwell Louis TC N 3	Erie, Pa.
Endriss, Warren Oakley TC M 3	West Haven, Conn.
Erwin, Eugene Kent TC M 1	Grand Junction, Colo.
Eskew, William Theo, Jr. EC N 5	Anderson, S. C.
Eubanks, "Jack" Otha Albert, Jr. TC N 1	Durham, N. C.
Evans, Don Tolbert EC N 3	Enfield, N. C.
Evans, Hugh Stackhouse, Jr. EC N 5	Nashville, N. C.
Evans, William Thomas, III EC M 3	Jacksonville, Fla.
Everhart, Claude Elsbert TC C 1	Winston-Salem, N. C.
Fairey, George William Arthur, II TC C 5	Burlington, N. C.
Fallon, James Joseph TC N 1	New York, N. Y.
Farber, Charles TC N 3	Newark, N. J.

Farley, Albert Walter TC C 7	Bay City, Mich.
Farr, John Dent TC N 3	Washington, D. C.
Farrar, Julian Walker TC N 3	Carthage, N. C.
Farrell, Jack Edward TC M 3	Jacksonville, Fla.
Farthing, James Day TC C 3	Durham, N. C.
Faulk, Ralph Ivey TC M 3	Thomasville, Ga.
Fawcett, Blake TC N 7	Alderson, W. Va.
Fears, Frank Walker TC M 5	Belle Glade, Fla.
Felker, Clay Schuette TC C 2	Webster Groves, Mo.
Fels, Fred Edward EC N 3	Santurce, Puerto Rico
Felton, Eric Rogers TC N 3	Wilson, N. C.
Felty, Allen Thomas TC M 5	Bristol, Tenn.
Ferguson, Edmund, Jr. EC M 3	Huntington, W. Va.
Ferguson, Tom Bruce TC C 5	Tulsa, Okla.
Feriozi, Dante John TC N 6	Washington, D. C.
Fernandez, Eugenio E. TC C 3	San Juan, Puerto Rico
Ferree, Max Fulton TC N 5	Winston-Salem, N. C.
Fesperman, Clyde Covington, Jr. TC C 1	Charlotte, N. C.
Fetzer, William McKinnon TC N 2	Brevard, N. C.
Fick, David William TC N 5	Passaic, N. J.
Fike, Robert Guy EC M 2	Falls Church, Va.
Fine, Jack Paul EC N 6	Richmond, Va.
Fish, Harry Gustav TC C 5	Penns Grove, N. J.
Fisher, James Arthur TC N 7	Llanerch, Pa.
Fisher, Karl Emmett TC M 6	Kannapolis, N. C.
Fisher, Robert Ross TC C 3	Youngstown, Ohio
Flammia, Dominick Antonio, Jr. TC M 7	Astoria, Long Island, N. Y.
Flax, Donald TC M 7	Exmore, Va.
Fleming, David George EC C 3	Ravenswood, W. Va.
Fletcher, Harold Thompson TC N 7	Grand Rapids, Mich.
Flora, Joseph Wilson, Jr. TC N 3	Moyock, N. C.
Floyd, Dagma Leake, Jr. TC M 5	Athens, Ga.
Floyd, Dan Justin TC C 1	Fairmont, N. C.
Floyd, William Stewart TC N 1	Pittsburgh, Pa.
Flowe, Benjamin Hugh TC C 1	Concord, N. C.
Flynn, Robert Edmund EC M 1	Taunton, Mass.
Fogle, Francis Gordon TC M 8	Yosemite, Ky.
Foley, Henry Thomas TC C 1	Macclenny, Fla.
Folger, Fred, Jr. TC C 1	Mt. Airy, N. C.
Fonger, William Hamilton TC N 1	Chicago, Ill.
Ford, John English EC M 4	Martinsville, Va.
Fort, David Acrill TC M 3	Gaffney, S. C.
Foster, Joseph Byram TC C 1	New York, N. Y.
Foster, Richard Jay TC N 1	Bradford, Pa.
Fox, George Henry, Jr. EC N 3	Oaklyn, N. J.
Frazier, Rawls Harrell TC N 5	Virgilina, Va.
Frederick, Roland TC N 1	Oroville, Wash.
Freedman, William EC C 3	Durham, N. C.
Freeman, Dillard Champion TC N 1	Winston-Salem, N. C.
Freeman, Jack EC M 5	Washington, D. C.
Freeman, Walter Charles TC N 1	Arlington, Va.
Freeman, William Shuford TC C 1	Dacusville, S. C.
French, Charles Graves EC N 8	Clintwood, Va.
Friday, Albert DeLloyd TC N 1	West Point, Miss.
Friedman, Max Myron TC M 7	Memphis, Tenn.
Frizzelle, John Lloyd, Jr. TC C 1	Durham, N. C.
Fry, Louis Claude TC M 1	Burnet, Texas
Fulghum, Francis Marion TC N 1	Wilson, N. C.
Fuller, Aubrey Clement TC M 5	Lexington, Ky.
Fuller, Manley Kearns TC N 5	Whiteville, N. C.

Fulner, Albert John, Jr. EC M 5	Hartford, Conn.
Gable, Kenneth Lowell TC N 5	Webster Groves, Mo.
Gable, Laurence John, Jr. TC N 3	Webster Groves, Mo.
Gadsden, Cecil Maurice EC N 5	Rapid City, S. D.
Gage, Lucius Gaston, Jr. TC C 2	Charlotte, N. C.
Gaillard, Stephen Lee TC N 3	Bronxville, N. Y.
Gaines, Stuart Williams TC M 6	Birmingham, Ala.
Gaines, William Robert TC N 6	Lexington, Va.
Galloway, J. Gordon Rountree TC C 3	Lecompte, La.
Gans, Walter Joseph, Jr. TC M 1	Richmond, Va.
Gantt, Robert Melvin, Jr. TC N 8	Durham, N. C.
Gantt, Samuel Fox TC N 5	Durham, N. C.
Gardiner, William Leo TC C 1	Baltimore, Md.
Gardner, Forrest Briscoe, Jr. TC M 7	Hendersonville, N. C.
Gardner, Richard Harold TC M 3	Little Rock, Ark.
Gardner, Richard Marvin, Jr. TC N 1	Washington, D. C.
Gardner, William Henry, Jr. EC N 4	Edenton, N. C.
Garrett, John Edward TC M 1	Wapakoneta, Ohio
Garrett, Norman Hessen, Jr. TC C 1	Mt. Kisco, N. Y.
Garrett, Robert Roth TC C 6	Asheville, N. C.
Garrick, Grier Lucius, Jr. TC N 3	Decatur, Ga.
Gaudette, Paul Robert EC M 3	Trenton, N. J.
Gaumnitz, Gordon Arthur TC N 5	Washington, D. C.
Gee, William Allan TC M 1	Niles, Mich.
Gibb, Charles Mitchell, Jr. TC N 5	Dunn, N. C.
Gibbs, George Morgan TC C 1	Washington, D. C.
Gilbert, Arthur Lewis TC N 5	Havre de Grace, Md.
Gilbert, Clarence Wesley TC N 3	Port Richmond, S. I., N. Y.
Gilbert, Richard Laurence TC N 5	White Plains, N. Y.
Gilbert, Warren Levi TC N 1	Altoona, Pa.
Gilchrist, Charles Pierson, Jr. TC M 5	Emmerton, Va.
Gile, Howard Lawrence EC C 7	Stoneham, Mass.
Giles, Charles Ogburn TC N 5	Lexington, N. C.
Giles, Christopher Herbert, Jr. TC M 5	Raeford, N. C.
Gillen, Howard William TC N 5	Glen Rock, N. J.
Gilligan, Sidney Rogers, Jr. EC M 1	Warren, Mass.
Gilmore, Joseph Henry TC N 3	Ventnor, N. J.
Ginley, Thomas Henry, Jr. TC N 4	Girardville, Pa.
Ginther, John Oliver TC N 1	Logansport, Ind.
Glancy, William Lemuel TC N 1	Mt. Airy, N. C.
Glaze, John William, Jr. TC C 1	Winter Haven, Fla.
Gleason, John Craddock TC M 5	Salem, Va.
Glimcher, Melvin Jacob EC M 1	Chelsea, Mass.
Glos, Gardiner Woodward EC C 5	Tampa, Fla.
Glos, Richard Corbin TC C 1	Tampa, Fla.
Glover, Edward James, Jr. TC C 1	Lumberton, N. C.
Goddard, Edward Adolphus, III TC N 5	West Palm Beach, Fla.
Godshall, Robert Ellis TC M 7	Columbia, S. C.
Goehrs, Robert Irving TC CG 3	Houston, Texas
Goff, Percy Octavus TC M 3	Charlotte Harbor, Fla.
Golden, Richard Francis TC N 1	Cumberland, Md.
Goldhill, Walter Allan TC N 5	Great Neck, L. I., N. Y.
Goodman, Murray TC N 5	New York, N. Y.
Goodwin, Herman Ellery TC M 5	New Orleans, La.
Gordon, Harold William TC N 3	Portsmouth, Ohio
Goss, Jack Gregory TC N 5	Aurora, Ill.
Gottlieb, Richard H. TC M 1	Chicago, Ill.
Grace, John Nesbit, Jr. TC M 7	New Albany, Miss.
Graham, Joseph Lawton EC N 3	Lake Lure, N. C.
Granata, Angelo TC N 5	Verona, N. J.

Granville, Joseph Ensign TC N 3	Westport, Conn.
Gray, Harry Williams TC N 1	Poolesville, Md.
Gray, William Howard TC N 7	Huntington, W. Va.
Grayson, Allan Monroe, Jr. EC N 5	Dallas, Texas
Green, Emry Capelle TC N 2	Greensboro, N. C.
Green, John Henry EC M 5	Kearny, N. J.
Green, Paul, Jr. TC C 1	Thomasville, N. C.
Green, Thomas William TC M 1	Cranston, R. I.
Greene, George Perry EC N 7	Boone, N. C.
Gresham, Rex Maynard TC CG 1	Oklahoma City, Okla.
Gribben, James, III TC N 5	Thomasville, Ga.
Griffeth, Leon Clifford TC C 1	Holmes, N. Y.
Griffin, William Augustine EC C 1	Durham, N. C.
Griffith, Leon Odell TC M 7	Milton, Fla.
Griffith, Wendell Phillips TC N 1	Maplewood, N. J.
Griswold, Richard Sheldon TC C 3	Stratford, Conn.
Grob, Warren David TC C 7	Merchantville, N. J.
Groome, Bailey Troy EC N 8	Charlotte, N. C.
Groome, Roland Carlyle TC M 7	Greensboro, N. C.
Groover, Samuel Edwin, Jr. TC M 9	Statesboro, Ga.
Grubb, John Gilbert, Jr. EC N 2	Norfolk, Va.
Gubin, Morton Leon TC N 3	Durham, N. C.
Gugger, Gerald Robert EC C 7	Endwell, N. Y.
Guiliano, Jerry James TC C 5	Irvington, N. J.
Gulledge, Marius Bailey TC N 5	Albemarle, N. C.
Gulley, Wilbur Paul, Jr. TC N 5	Little Rock, Ark.
Gum, William Brooks EC N 5	Charleston, W. Va.
Gunn, Charles Groshon, Jr. TC N 3	Bluefield, W. Va.
Gunst, Cyril Curtis TC N 3	Glenshaw, Penn.
Gunst, James Staub TC N 1	Glenshaw, Penn.
Gurganus, William Ray TC N 3	Rocky Mount, N. C.
Gustus, Warren Joseph TC N 1	Charlestown, Mass.
Guthrie, Eugene Harding TC CG 2	Chevy Chase, Md.
Guthrie, Frank E. TC M 5	Louisville, Ky.
Gutstadt, Joseph Platt TC N 7	Chicago, Ill.
Gwyn, Allen Hatchett, Jr. TC N 5	Reidsville, N. C.
Gypson, Harold Ellington EC C 5	Rome, N. Y.
Haas, William Howard TC C 1	Norwald, Conn.
Hagaman, Hugh Bernard TC M 5	Winston-Salem, N. C.
Hagan, Robert Ridley TC M 1	Norfolk, Va.
Hagans, Roger TC M 4	Hartselle, Ala.
Hager, Frederick Eugene TC M 1	Boynton, Okla.
Haggerty, William Clifford TC N 6	Lakewood, Ohio
Haines, George Louis, Jr. TC N 3	Washington, D. C.
Haislip, Clinton Leslie TC N 1	Stokes, N. C.
Hale, Lewis Gordon, Jr. TC N 3	Scarsdale, N. Y.
Hall, Wayne Thomas TC N 1	Albemarle, N. C.
Halperin, George Bennett TC C 1	Shu Shan, N. Y.
Hamill, Charles William TC M 7	Camden, Tenn.
Hamilton, Charles Gilbert TC CG 4	Birmingham, Ala.
Hamman, John Shue TC N 5	Pitcairn, Pa.
Hammond, David Palmer TC N 1	Cerro Gordo, N. C.
Hancock, Quinlan Harris TC N 1	Alexandria, Va.
Hand, Herbert Gilman TC M 8	Westfield, N. J.
Haninger, Glenn James TC N 1	Cilero, Ill.
Hanner, Austin Zach TC M 3	Earl, Arkansas
Harbaugh, Harold Charles EC C 1	St. Charles, Ill.
Hardage, Robert Kenneth EC M 4	Madden, Miss.
Hardesty, Charles Howard, Jr. TC C 7	Fairmont, W. Va.
Hardison, Frederick Leon EC C 1	Williamston, N. C.

Hardy, William Marion EC N 7 Durham, N. C.
Hargett, Derward Mitchell EC N 2 Charlotte, N. C.
Harkins, Clarence Thomas TC M 9 Gadsden, Ala.
Harkness, Richard Roland EC N 3 Randolph, N. Y.
Harmon, Bennett Meredith TC N 3 Newberry, S. C.
Harner, Harry Lee TC M 5 Staunton, Va.
Harper, Richard Ellsworth TC M 3 Healy, Kan.
Harris, Frank Leslie EC N 3 Racine, Wisc.
Harris, Guy Leslie, Jr. TC N 5 Warren, Ohio
Harris, Henry Sear TC C 1 Norfolk, Va.
Harris, Norman Arthur TC N 2 Ridgecrest, N. C.
Harris, Richard Earl TC M 7 Graceville, Fla.
Harrison, William Mortimer, Jr. TC M 5 Newport News, Va.
Harry, Reece Price, Jr. TC C 1 Greensboro, N. C.
Hart, Richard Henry EC N 3 Anniston, Ala.
Hartley, Howard Paul TC N 3 Ravenswood, W. Va.
Hartman, John Wheeler TC N 7 Detroit, Mich.
Harwell, Everett Owen TC M 7 Birmingham, Ala.
Hassel, William Frederick, Jr. TC C 1 Laurinburg, N. C.
Hatley, Bill Hahn TC C 1 Albemarle, N. C.
Hatley, Marvin Thomas, Jr. EC N 8 Albemarle, N. C.
Hattaway, James Herbert TC C 3 Greensboro, N. C.
Hawkins, Bryce Wylie TC C 1 Elizabeth, Pa.
Hawkins, Jack DeWeese TC N 5 Braintree, Mass.
Hawkins, Josias Henry TC N 1 Forest Heights, Md.
Haworth, Homer Franklin, Jr. TC N 1 High Point, N. C.
Hayes, Thomas Phillip TC N 5 Paterson, N. J.
Haynes, Winfred Newman TC M 4 Tracy City, Tenn.
Hays, Robert William TC N 3 Chamblee, Ga.
Hayworth, Joseph Allison TC C 3 High Point, N. C.
Hazel, Robert Elvin TC M 9 Shrewsbury, N. J.
Hearty, George Jay TC N 4 Akron, Ohio
Heath, William Walter EC C 7 Atlantic City, N. J.
Hebb, John Hopewell TC N 3 Baltimore, Md.
Hedin, Dan Erik TC N 5 Richmond, Va.
Heil, George Herman TC C 1 Carteret, N. J.
Hemby, Torrence Eli, Jr. TC C 1 Charlotte, N. C.
Henderson, Jesse James, Jr. TC C 1 Wendell, N. C.
Hendricks, John Wade, Jr. TC N 7 Statesville, N. C.
Hennessey, Robert Eugene TC M 1 Chicago, Ill.
Henninghausen, Frederick Herman, Jr. EC N 3 Baltimore, Md.
Henry, William Charles TC N 3 Atlanta, Ga.
Henson, Waldo Cornell, Jr. TC C 6 Charleston, W. Va.
Herbst, Robert Taylor TC N 1 Charleston, S. C.
Hermance, Robert Lincoln TC N 5 Nashua, N. H.
Hermann, Norman Earl TC N 1 Pittsburgh, Pa.
Herod, Jack TC M 5 Gallatin, Tenn.
Herring, Howard Egbert, Jr. TC N 3 Wilson, N. C.
Herter, Charles Jacques TC M 7 Haworth, N. J.
Hewlett, Marvin McCoy TC M 5 Birmingham, Ala.
Hibbett, John Allen TC M 5 Gallatin, Tenn.
Hickerson, John Hightower TC M 3 Washington, D. C.
Hicks, Thomas Warren TC M 8 Bradenton, Fla.
Hiester, Robert Arthur TC CG 7 Denver, Colo.
Higgins, Edwin Reese TC N 5 Beckley, W. Va.
High, Sherrill Rae TC N 1 Durham, N. C.
Hill, Francis Uyless, Jr. EC C 7 Durham, N. C.
Hill, John Kling TC C 8 Snyder, N. Y.
Hill, Thomas Bayard TC N 3 Bronxville, N. Y.
Hinshaw, Robert Alonzo TC C 7 Akron, Ohio

Hinson, Gus DeLacy TC M 3	Orlando, Fla.
Hipple, Harris Blair EC N 3	Spring City, Pa.
Hirsch, Jack Henry, Jr. EC M 3	Atlanta, Ga.
Hirshland, Lee David TC N 3	Reading, Pa.
Hisey, Henry Clyde, Jr. TC M 5	Shenandoah, Va.
Hjertberg, Harold Emil TC N 5	Poughkeepsie, N. Y.
Hockenjos, Gottleib Frederick TC C 7	Livingston, N. J.
Hogan, William Augustus, Jr. TC M 3	Starkville, Miss.
Hogarth, Bruce Edward EC C 7	Cheshire, Conn.
Hoge, DeForest TC N 3	Bronxville, N. Y.
Holden, Edward Allen EC M 7	Jamaica, N. Y.
Holley, Charles Richard TC N 1	Ocala, Fla.
Hollingsworth, Connor Wright TC M 7	Cave Spring, Ga.
Hollingsworth, James William TC C 3	Mt. Airy, N. C.
Holloman, Milton Carden, Jr. TC N 1	Durham, N. C.
Holtsinger, Edgar Meek TC CG 1	Jacksonville Beach, Fla.
Hones, Edward Wheeler EC C 8	Roscoe, N. Y.
Honeycutt, Emery Highsmith TC N 7	Clinton, N. C.
Honeycutt, Kemp Carter, Jr. TC N 1	Hickory, N. C.
Honeycutt, Renn Galloway TC C 1	Marion, N. C.
Hood, Charles Edwin TC M 7	Greensboro, N. C.
Hood, Richard Thornton, Jr. TC N 3	Kinston, N. C.
Hornaday, Harold Preston TC N 1	Greensboro, N. C.
Horne, Emory Henry, II TC M 5	Norfolk, Va.
Hornor, Frank Berkshire TC N 5	Clarksburg, W. Va.
Horton, Gilliam King Jackson TC N 7	Wilmington, N. C.
Horwitz, Herbert Earl TC N 5	Cleveland Heights, Ohio
Houghton, Robert Allen TC M 5	Berryville, Va.
Houk, Joseph Thomas TC N 1	Indianapolis, Ind.
Hounsell, Carl Warren TC M 2	Colebrook, N. H.
Houpt, Frank Pearson EC N 3	Willow Grove, Pa.
Houston, Ben Herriot TC C 5	Smithfield, N. C.
Howell, Joseph Adams, Jr. TC M 1	Richmond, Va.
Hubbard, James Norment TC N 1	Washington, D. C.
Huber, Richard Lumley TC N 5	Scranton, Pa.
Hudson, Fitzgerald Salter EC M 3	Montgomery, Ala.
Hudson, Ralph Fletcher TC N 1	Mt. Morris, Ill.
Huffman, Paul Douglas EC C 3	Thomasville, N. C.
Hughes, William Denver TC N 8	East Liverpool, Ohio
Hull, William DeLoney TC N 7	Decatur, Ga.
Humphreys, Charles Wesley, Jr. TC N 1	Washington, D. C.
Humphreys, Ewing Sloan, Jr. TC M 7	Atlanta, Ga.
Hunt, Roy Franklin, Jr. TC M 7	Greenville, S. C.
Hunt, Samuel Wayne TC M 7	Fruitland, Tenn.
Huntley, Benjamin Franklin TC N 3	Winston-Salem, N. C.
Huntley, Justus Robert TC N 3	Westfield, N. J.
Hurley, Raymond Dominic TC N 3	Washington, D. C.
Hutchings, John Richard TC C 1	Durham, N. C.
Hutchings, Philip Wiley, Jr. TC C 7	Durham, N. C.
Hutchinson, Herbert Malcolm TC N 3	East Orange, N. J.
Hutt, Richard Rudolph EC N 5	Hammonton, N. J.
Hybert, George Fred TC N 6	Chicago, Ill.
Hyde, Henry John TC N 3	Chicago, Ill.
Imhoff, John Leonard EC N 2	Baltimore, Md.
Inbody, Harold Raymond TC N 1	Sharpsville, Pa.
Ingalls, Warren Montgomery EC N 3	Englewood, N. J.
Ingold, William Claude TC N 1	Salisbury, N. C.
Ireland, Thomas DeWitt TC N 1	Fairmont, W. Va.
Irons, Robert Sidney TC M 5	Washington, D. C.
Irwin, Frank Moore EC N 3	Raleigh, N. C.

Isenhour, Merle Edwin EC N 5	Durham, N. C.
Ivey, George Melvin, Jr. TC N 5	Charlotte, N. C.
Izlar, Henry Le Roy, Jr. TC N 5	Winston-Salem, N. C.
Jackson, Cecil Banon TC C 5	Durham, N. C.
Jackson, David Stone TC N 7	Clinton, N. C.
Jackson, Franklin Rowley EC N 7	Charlotte, N. C.
Jackson, Murray Threadgill TC M 7	Kannapolis, N. C.
Jackson, William Morrison EC M 1	Framingham, Mass.
Jacobs, Ralph William TC N 1	Plainfield, N. J.
Jacobson, Henry Samuel TC N 1	New York, N. Y.
Jarvis, Camden A., Jr. TC N 7	Charleston, W. Va.
Jarvis, Hallett Ward TC C 1	Charleston, S. C.
Javer, Jerome Milton TC C 2	Brooklyn, N. Y.
Jay, W. Thomas, Jr. TC C 3	Bradford, Pa.
Jeffcoat, Gaines Ray EC M 5	Opp, Ala.
Jenkins, Bobby Whitfield TC M 7	Guthrie, Ky.
Jenkins, Donn Keyes TC N 2	Mt. Rainier, Md.
Jenkins, James Turner TC M 7	Madden, Miss.
Jenkins, John Benson, III TC M 1	Norfolk, Va.
Jenks, Stuart Carlyle EC M 5	Richmond, Va.
Jensen, James Allen EC N 5	Great Neck, N. Y.
Jerritt, James Albert TC N 2	Kenansville, N. C.
Johnson, Clarence Watson, Jr. TC N 7	Lynnfield, Mass.
Johnson, Daniel Calvin EC C 9	Chapel Hill, N. C.
Johnson, Daniel Lee TC N 5	Grosse Pointe, Mich.
Johnson, David Stone TC N 1	Washington, D. C.
Johnson, Edward Louis EC N 5	Bellaire, N. Y.
Johnson, Harold Reynolds TC M 7	Sanford, N. C.
Johnson, Horace Lee, Jr. EC M 7	St. Louis, Mo.
Johnson, James Gaston EC M 7	Rocky Mount, N. C.
Johnson, James Patton TC N 3	Lakeland, Fla.
Johnson, John William EC M 3	Franklin, Va.
Johnson, Lester Dean TC N 4	Chevy Chase, Md.
Johnson, Martin Henry EC C 8	Warren, Pa.
Johnson, Martin Luther, Jr. TC N 3	Bowden, Ga.
Johnston, Robert Malcus, Jr. TC N 5	Evanston, Ill.
Johnston, William Young EC M 7	Eufaula, Ala.
Johnstone, Robert Dale TC C 7	Munhall, Pa.
Jones, Carl Lester, Jr. TC C 1	Laurinburg, N. C.
Jones, Conway Jefferson, Jr. TC C 1	Fountain Inn, S. C.
Jones, Edward Lenoir TC C 1	Gastonia, N. C.
Jones, Luther Clarke, Jr. TC N 3	Richmond, Va.
Jones, Pelham Thomas TC N 5	Marshallberg, N. C.
Jordan, Gerald Ray, Jr. TC C 2	Charlotte, N. C.
Josey, William Ellis, III TC C 3	Bartow, Ga.
Jules, Philip TC CG 4	Los Angeles, Cal.
Kafoglis, Milton Stathis TC M 7	Lexington, Ky.
Kalander, William Robert TC N 3	Stanford, Conn.
Kalevas, Harry John TC C 5	Rockingham, N. C.
Kaley, Harry Embich EC C 5	Lancaster, Pa.
Kandel, Robert Franklin TC N 7	Louisville, Ohio
Kaplan, Benjamin Myer TC N 6	Louisville, Ky.
Kaptur, Joseph TC M 3	Lakewood, Ohio
Karl, William Wainwright EC C 7	Tarrytown, N. Y.
Kastelz, William Lawrence TC CG 6	Aurora, Minn.
Katz, Edward TC N 6	Arlington, Va.
Katzenstein, Jack EC C 7	Shreveport, La.
Kaufman, Stanley Lionel EC M 1	Burlington, Vt.
Kawchak, James TC C 1	Johnstown, Pa.
Kehoe, James Andrew, Jr. TC N 6	Sherburne, N. Y.

Keith, William Charles, Jr. EC M 3	San Diego, Calif.
Keller, Lewis Evans TC C 3	Norfolk, Va.
Keller, Robert Slotterback TC N 7	Lavelle, Pa.
Kelly, Edward Lee TC M 7	Waverly, Fla.
Kelly, James Gerald EC N 3	Durham, N. C.
Kelly, John Jackson, III TC N 4	Big Stone Gap, Va.
Kemp, Clarence Edward TC M 1	High Point, N. C.
Kemp, Henry Beattie, Jr. TC M 7	Trenton, S. C.
Kemp, Robert Watson TC M 8	Bamberg, S. C.
Kendall, Fred Algie EC C 2	Johns, N. C.
Kendall, Herbert Fairfax TC N 6	New York, N. Y.
Kendrick, Charles Lyman TC CG 3	Detroit, Mich.
Kenerly, Robert Harold TC M 7	Salisbury, N. C.
Kennedy, John Richard TC N 1	Richmond, Cal.
Kennedy, William Cottrell TC M 7	Mt. Dora, Fla.
Kennell, Thomas Henry, Jr. TC M 7	Elgin, Ill.
Kenyon, Robert Newton TC N 1	Wilmderding, Pa.
Kerr, William John, III TC C 1	Durham, N. C.
Kessel, Dwight Wallace TC C 1	Beckley, W. Va.
Kesselring, Albert Bruce TC M 5	Louisville, Ky.
Key, Neill Lawrence TC N 1	Rockingham, N. C.
Keye, John Dudley, Jr. TC N 2	El Centro, Cal.
Kibler, Robert Franklin TC C 3	Durham, N. C.
Kicklighter, James Ellis TC N 5	Sarasota, Fla.
Kiefer, George Croney, Jr. TC N 7	Hamden, Conn.
Kildgore, Charles TC M 5	South Pittsburg, Tenn.
Killalea, Joseph Neil TC N 1	Leonia, N. J.
King, Edward Oscar TC C 1	Pulaski, Va.
King, Fred Grant EC N 2	Youngstown, Ohio
King, Joseph Calvin EC C 1	Leaksville, N. C.
Kingery, Lisle Byron TC C 7	White Plains, N. Y.
Kinsey, Charles Foulke TC N 1	High Point, N. C.
Kinum, Louis Albert TC C 1	Scotia, N. Y.
Kiser, John Wesley TC M 3	Maryville, Tenn.
Kister, Robert Irwin TC M 5	Brooklyn, N. Y.
Kitchens, Jack Conway TC C 9	Bradley Beach, N. J.
Kittner, Harry EC M 7	Weldon, N. C.
Klaaren, Hobart Ernest TC N 1	Chicago, Ill.
Knight, Austin Ruddock EC M 1	Beverly, Mass.
Knight, James Ernest, Jr. TC M 7	Jacksonville, Fla.
Knight, Robert Marion TC C 1	Jacksonville, Fla.
Knight, Thomas Gordon EC C 3	Tampa, Fla.
Knight, Willard Tadmer TC M 7	Alachua, Fla.
Knotts, Ernest Mack TC N 2	Albemarle, N. C.
Knowland, Andrew Richardson TC C 3	Goshen, Mass.
Knowles, Joseph Lamont TC N 3	Mt. Olive, N. C.
Knox, Charles Eugene TC N 1	Davidson, N. C.
Kochel, LeRoy Calvin TC N 1	Ephrata, Pa.
Kohn, Joseph TC M 3	Metuchen, N. J.
Koon, George Nicholas TC N 2	Asheville, N. C.
Koonce, Thomas Ricaud, Jr. EC M 7	Fair Bluff, N. C.
Koperek, Robert Frank TC C 7	New Kensington, Pa.
Korelitz, Burton Irwin TC C 3	Lawrence, Mass.
Kraemar, Ralph John TC CG 6	Parkers Prairie, Minn.
Krisza, John, Jr. TC C 1	McKees Rocks, Pa.
Krivit, William TC C 3	Linden, N. J.
Kunkel, Edward X. TC C 1	Williamsburg, Va.
Kunkel, Walter Thomas TC C 1	Easton, Pa.
Kurtz, William Brownlow EC N 3	Waterbury, Conn.
Kwiatkoski, Joseph Daniel EC M 7	Jeanette, Pa.

Lackey, John Cornelius, Jr. TC N 1	Buffalo, N. Y.
Ladutko, John TC M 5	West Haven, Conn.
La Hatte, Joseph Fitzgerald TC N 3	Falls Church, Va.
Laibstain, Samuel TC M 7	Norfolk, Va.
Lambert, Edgar TC C 2	Rocky Mount, N. C.
Lambert, M. Charles TC C 5	York, Pa.
Lambeth, William Arnold TC N 5	Asheville, N. C.
Lambreth, Marcus Daniel TC M 7	Corinth, Miss.
Lanahan, John Stevenson TC N 5	Pittsburgh, Pa.
Landesberg, Harold Lionel TC N 3	Philadelphia, Pa.
Lane, Allie Hartsfield TC M 5	Lakeland, Fla.
Lane, William Augustus, Jr. TC N 9	Miami, Fla.
Lange, Carl James TC N 1	Oil City, Pa.
Langton, John Ellis TC N 2	Williamsburg, Va.
Lanham, Charles Warren, Jr. EC C 8	Washington, D. C.
Larew, Hugh Sanford TC N 3	Mocksville, N. C.
Larkin, Sydney Anthony TC N 5	New York, N. Y.
Larsen, Robert John TC M 1	Kansas City, Mo.
Lasater, John Ervin EC N 2	Durham, N. C.
Lascara, Anthony Joseph EC M 5	Norfolk, Va.
Latham, James Gray TC M 5	Mocksville, N. C.
Lattimore, George Festus, Jr. TC N 3	Kings Mountain, N. C.
Laverty, Robert Anthony EC M 1	Leominster, Mass.
Lavigne, Walter Albert TC M 9	Miami, Fla.
Lawson, William Barnes, Jr. TC N 1	Arlington, Va.
Leard, Jack Allman TC M 5	Hartswell, Ga.
Leckie, Douglas Edward, Jr. TC M 1	Richmond, Va.
Lee, Edwin Borden, Jr. TC N 3	Goldsboro, N. C.
Lee, Joseph Osborne, Jr. TC M 5	Salisbury, N. C.
Leigh, Robert Edward, Jr. TC C 3	Kinston, N. C.
Lemken, Russell Kenneth TC N 6	Brooklyn, N. Y.
Lemon, Elgin Edward TC N 6	Sibley, Iowa
Lenczyk, Rudolph Edwin TC N 3	Newington, Conn.
Lenox, Richard Frederick TC N 5	Ridgefield Park, N. J.
Leograndis, Stephen Cosmos TC N 3	Framingham, Mass.
Leonard, Arthur Prudden TC N 5	Miami, Fla.
Lepkowski, Joseph Paul TC M 7	Erie, Pa.
Lester, Bernard Moore TC M 1	Oklahoma City, Okla.
Le Valley, Victor Ritzendollar, Jr. TC N 3	Long Branch, N. J.
Levin, Eugene Milton EC N 5	Newport News, Va.
Levine, Bertram TC C 5	Paterson, N. J.
Levy, Julius Leo, Jr. EC N 3	Baltimore, Md.
Lewis, John Barkley EC N 5	Poughkeepsie, N. Y.
Lewis, Mack Breeden EC M 4	Greenwood, S. C.
Lewis, Maurice Cullen, Jr. EC N 1	Cambridge, Md.
Lewis, Worth Pegram EC C 1	Raleigh, N. C.
Leys, Charles Hunter TC M 5	Lynchburg, Va.
Lieb, Joseph Bernard TC M 1	Arlington, Va.
Lies, William, III TC C 3	Coleman, Ga.
Liles, Charles Vander TC N 7	Goldsboro, N. C.
Linberg, Eugene Joseph TC C 5	Carney's Point, N. J.
Lindberg, Kermit Richard EC C 8	Swissvale, Pa.
Lindsey, Ray Larond EC M 4	Blakely, Ga.
Lineberger, Haywood Price, Jr. TC C 3	Gastonia, N. C.
Linn, Jacob Paul, Jr. TC M 3	St. Petersburg, Fla.
Linsley, John Henderson TC M 1	North Windham, Maine
Lipe, Robert Oscar TC N 5	Albemarle, N. C.
Lipsitz, Lee Stanley TC C 1	Ahoskie, N. C.
Little, Charles Edward TC M 3	Norfolk, Va.
Livick, Arthur Crawford, Jr. TC M 7	Weyer's Cave, Va.

Lockhart, David Kelly, Jr. TC C 5	Durham, N. C.
Lockwood, Thomas George TC C 3	Arlington, Va.
Loftis, Wallace Garland TC M 7	Durham, N. C.
Logan, David Malcolm EC M 1	White River Junction, Vt.
Long, Leo Joseph TC M 7	South Orange, N. J.
Long, Paul Ellsworth EC N 5	Roanoke, Va.
Longino, Frank Henry TC N 3	Texarkana, Ark.
Lorenzen, Robert Frederick TC C 3	Toledo, Ohio
Lopez, Ramon TC N 1	McAllen, Texas
Lowery, Richard Wilbourn TC M 7	Halifax, Va.
Lowry, Frank Noonan TC CG 5	Berwyn, Ill.
Lucas, Bernia Blackburn, Jr. TC N 1	Garrison, W. Va.
Lucas, Stephen John TC N 1	Beaverdale, Pa.
Luckes, Alex TC M 5	Wilkes-Barre, Pa.
Lundeberg, Philip Karl TC N 6	Durham, N. C.
Luper, Raymond Elmore TC M 5	Norfolk, Va.
Lutterloh, Ralph Buxton TC N 1	Fayetteville, N. C.
Lyerly, James Gilbert TC N 2	Jacksonville, Fla.
Lynch, David Lafayette, Jr. TC M 7	Winchester, Tenn.
Lynch, Luby Raeford, Jr. TC C 1	Wilmington, N. C.
Lyon, Joseph Theodore EC C 8	Durham, N. C.
McAlduff, Thomas Philip TC N 3	Garden City, N. Y.
McAlister, Joseph Howard TC C 3	Caruthersville, Mo.
McAllister, Eugene Francis TC CG 1	Davenport, Iowa
McBane, Donald Grant TC C 1	Snow Camp, N. C.
McBane, Joseph Harold TC N 3	Greensboro, N. C.
McBryde, Clarence Otis EC M 4	Lakeview, N. C.
McCain, William Crawford TC M 5	Hughes, Ark.
McCaleb, James Haven, Jr. TC M 1	Memphis, Tenn.
McCall, William TC C 1	Winston-Salem, N. C.
McCambridge, John Francis, Jr. TC N 4	Chevy Chase, Md.
McCanless, Edgar Eugene TC C 3	Canton, Ga.
McCarthy, Eugene Clare TC M 1	Tulsa, Okla.
McClelland, Dean Smucker EC N 5	Johnstown, Pa.
McCombs, Ivan Wood EC N 3	Sherrard, W. Va.
McCormack, George Edward TC N 7	New Castle, Ala.
McCormick, Daigold Stuart, Jr. EC N 3	Manchester, N. C.
McCormick, John Newton, II TC M 7	Louisville, Ky.
McCown, Wallace Hardin TC N 3	Johnson City, Tenn.
McCracken, William Woods TC C 5	Henderson, N. C.
McCreight, Paul Willard TC N 3	Huntington, W. Va.
McCrory, John Graham TC M 3	Carter's Bridge, Va.
McCuiston, Robert Alexander, Jr. TC N 5	Winston-Salem, N. C.
McCullock, Francis Walton EC M 3	Huntsville, Ala.
McCullough, Clarke Lovegrove TC M 7	Haines City, Fla.
McCusker, Edward Frank EC N 2	Endicott, N. Y.
McDaniel, William Thomas, Jr. TC M 1	Leesville, S. C.
MacDonald, Kenneth Charles TC C 2	Birmingham, Mich.
MacDonald, Lorne Sinclair TC N 7	Birmingham, Mich.
McDonald, William Maddox TC N 1	Washington, D. C.
McDonald, William Perry, Jr. TC M 7	Memphis, Tenn.
McDougal, Robert Joseph TC M 8	Oconto, Wisc.
McDowell, Theodore Noyes TC N 2	Washington, D. C.
McElrath, Hunter Budd, Jr. TC M 3	Jacksonville, Fla.
McEwen, William Clark TC M 6	Jacksonville, Fla.
McGary, Malcolm Carroll EC N 5	Newton, Mass.
McGinnis, George Ira TC M 3	Rochester, N. Y.
McGowan, Donald Martin TC C 1	Youngstown, Ohio
McGrath, Frederick John, Jr. EC M 4	Morris Plains, N. J.
McGraw, William Higgins TC N 3	New York, N. Y.

McGuire, Neal Warren, Jr. EC C 3	Winston-Salem, N. C.
McGuire, Theodore Roosevelt TC M 7	Centerville, Ala.
McIntire, Charles Henry TC C 1	Oakland, Md.
McIntire, Hubert Elwyn, Jr. TC N 5	Ridgewood, N. J.
McIntyre, Douglas Carmichael TC N 7	Lumberton, N. C.
McIver, Donald, Jr. TC N 7	Bristol, Va.
McKeague, Robert Edmond EC C 8	Petersburg, Va.
McKee, William David EC C 1	Forest Hills, N. Y.
McKelvie, Henry Rennie TC C 3	Huntsville, Ala.
McLain, Abner Sebastian TC N 7	Hattiesburg, Miss.
McLauchlin, Hugh Charles TC N 5	Raeford, N. C.
McLaughlin, Robert Theodore EC C 5	Charlotte, N. C.
Macklin, Theodore Ora TC M 1	Lowell, Mass.
McManus, Lawrence Edwin TC M 7	Winston-Salem, N. C.
McMaster, William Henry TC M 1	Philadelphia, Pa.
McMillan, Robert Leroy, Jr. TC M 5	Raleigh, N. C.
McMurran, William Royall EC N 3	Norfolk, Va.
McPhaul, John Archibald TC N 1	Parkton, N. C.
McPherson, Harry Thurman TC C 3	Walnut Cove, N. C.
McSwain, William Laurence, Jr. TC N 5	Glen Alpine, N. C.
McTamney, John Vincent TC N 4	Philadelphia, Pa.
MacWhirter, James Evan TC N 5	Charlotte, N. C.
McWilliams, Thomas Peter TC C 3	Scranton, Pa.
Mahony, Donald Vincent TC N 3	Baltimore, Md.
Makosky, Robert Charles TC C 3	Alhambra, Calif.
Maloy, Robert Henry TC CG 9	Staten Island, N. Y.
Mankin, Harold Turner TC N 3	Chevy Chase, Md.
Mann, Frederick L. EC C 5	Drexel Hill, Pa.
Mann, Nathaniel Floyd, Jr. TC M 7	Charlottesville, Va.
Manor, Marshall Melvin EC M 3	Detroit, Mich.
Mansfield, Harold Eugene TC C 1	Jeannette, Pa.
Mansur, Richard Winthrop TC M 4	St. Petersburg, Fla.
Mapp, Charles A. EC C 8	Allison Park, Pa.
Markey, Hugh Arthur TC N 6	Staten Island, N. Y.
Markham, Charles Buchanan TC C 3	Durham, N. C.
Markham, James Edward, Jr. TC N 6	Washington, D. C.
Marks, Charles Hardaway TC M 7	Hopewell, Va.
Marsh, Spinks Hamilton TC C 3	Monroe, N. C.
Marshall, Charles Hayward EC N 5	Washington, D. C.
Marshall, William Donald TC N 3	Memphis, Tenn.
Marsic, Frederic Eugene, Jr. TC N 3	Caldwell, N. J.
Martin, Edwin, III TC M 5	Miami, Fla.
Martin, Howard Francis TC N 5	Burlington, Wisc.
Martin, Joseph McKnight TC M 6	Kenton, Tenn.
Martin, Theodore Brelsford TC N 3	Middletown, Ohio
Martin, Vance Bacon EC C 8	Hillsboro, N. C.
Martin, William Allen TC N 4	Arlington, Va.
Martinat, Edwin Henry TC N 1	Lenoir, N. C.
Martinelli, Robert Owens TC N 3	Covington, Va.
Martorell, Richard Albert TC C 1	Tampa, Fla.
Marzella, Sam Anthony TC M 5	Bellaire, Ohio
Maschmeier, Robert Harry TC CG 4	St. Louis, Mo.
Mason, Charles Manning TC N 5	Durham, N. C.
Mason, Ward Sherman TC C 2	Philadelphia, Pa.
Mason, William Albert EC N 3	Detroit, Mich.
Matherly, Ulysses Grant TC M 3	Sarasota, Fla.
Matheson, Cyrial Richard TC C 3	Newton, N. C.
Mathis, William Howard, Jr. TC M 3	Waynesboro, Va.
Matia, Thomas Ormand TC N 5	Cleveland, Ohio
Matthews, Thomas Melvin TC M 7	Forest, Miss.

Maurer, David Eugene TC M 5	Ft. Lauderdale, Fla.
Maxwell, David Jack, Jr. EC C 5	Johnstown, Pa.
Maxwell, Robert Reginald TC M 1	Long Island, N. Y.
May, Charles Rouss, Jr. TC C 1	Lakeland, Fla.
May, Lucian Fennell TC M 7	Quincy, Fla.
May, William Leece, Jr. TC M 2	Tazewell, Va.
Mayer, Baron Pierson TC N 1	Mt. Union, Iowa
Mayer, Ronald George TC M 7	Brooklyn, N. Y.
Mayo, Benjamin Franklin TC N 1	Rocky Mount, N. C.
Mays, Alexander Alen TC N 1	Pittsburgh, Pa.
Meader, Philip Warren TC M 1	Whitinsville, Mass.
Meinecke, Evans Arnold TC C 5	Ridgewood, N. J.
Mel, Peter John TC N 4	San Pedro, Calif.
Melvin, Leonidas Grey, Jr. TC N 6	Jackson Springs, N. C.
Mendenhall, Harold Lee TC N 7	Thomasville, N. C.
Merchant, Robert Eugene TC N 1	Kearneysville, W. Va.
Merritt, William Russell TC N 5	Mullins, S. C.
Messinger, Arthur Louis, Jr. TC N 2	Chicago, Ill.
Metzler, Robert James TC N 5	Lincoln Park, Pa.
Metz, Carl Louis EC C 7	Louisville, Ky.
Meyer, Warren John EC N 3	Staten Island, N. Y.
Micara, Francis Anthony Edward TC N 5	Brooklyn, N. Y.
Michel, Beverly Vidal, Jr. TC N 2	Roanoke, Va.
Michel, William Joseph, III TC M 1	Chicago, Ill.
Middleton, James Grayson TC N 3	Wilmington, N. C.
Mieczkowski, John Joseph EC M 1	Westport, Mass.
Miles, Wilson Meriwether TC C 1	Danville, Va.
Millard, David Dean TC C 3	Detroit, Mich.
Miller, Alex Stanley TC N 7	Millersburg, Ky.
Miller, Anthony George, Jr. TC N 4	Chevy Chase, Md.
Miller, Arthur Marcus, Jr. TC N 3	Elmira, N. Y.
Miller, Baxter Davis TC N 1	Boone, N. C.
Miller, Cameron Eugene TC N 5	West Jefferson, N. C.
Miller, Donald Francis TC N 3	Buffalo, N. Y.
Miller, Edwin Lang TC N 3	Buffalo, N. Y.
Miller, Frank Lane EC N 2	Charlotte, N. C.
Miller, Frank William, Jr. TC C 5	Bronxville, N. Y.
Miller, George Brown, Jr. EC C 2	Durham, N. C.
Miller, Gerald TC N 7	New York, N. Y.
Miller, Herbert Craig, Jr. TC N 7	Mooresville, N. C.
Miller, Loren Valmore TC C 5	Yonkers, N. Y.
Miller, Marvin Parmcek TC N 3	Chicago, Ill.
Miller, Thomas Maurice TC M 5	Richmond, Va.
Miller, Walter James, Jr. TC N 3	Salisbury, N. C.
Miller, William Hugh, Jr. EC N 3	Highland Park, Mich.
Mills, Stephen Roy TC N 5	Norfolk, Va.
Milner, Charles Edgar TC M 7	Waynesville, N. C.
Minor, John Truslow TC M 1	Staunton, Pa.
Mintz, Ronald Earl TC M 1	Rocky Mount, N. C.
Misbach, Edwin Charles TC N 5	Bloomfield, N. J.
Mitrushi, Peter Perry TC M 5	Atlantic City, N. J.
Mittle, Harold Lee TC N 7	Beaufort, S. C.
Mize, Jack Pitts TC N 5	Rutherford, N. J.
Moates, William Jennings TC M 7	Gautier, Miss.
Moehlenkamp, Fred G., Jr. TC CG 1	Wyandotte, Mich.
Moen, Roger Orin TC N 3	Raleigh, N. C.
Mohler, William Edward TC M 5	Charleston, W. Va.
Moncure, Thomas McCarty TC M 7	Stafford, Va.
Monk, William Lee TC N 6	Gainesville, Fla.
Monnett, Charles Guy, Jr. TC M 7	Greensboro, N. C.

Moody, Austin Lee, Jr. TC N 1	Woodstown, N. J.
Mooney, Lloyd George TC M 7	Bellaire, Ohio
Moore, Augustus Debrow Valin EC M 2	Chattanooga, Tenn.
Moore, George Walker St. Clair TC N 4	Bluefield, W. Va.
Moore, James Elijah, Jr. TC M 7	Nunez, Ga.
Moore, Jesse Seneca, Jr. TC N 2	Reidsville, N. C.
Moore, Louis Doyle TC C 1	Toccoa, Ga.
Moore, Robert Emmett TC M 5	Marion Junction, Ala.
Moore, Russell Hobron EC N 5	Towson, Md.
Moore, Samuel (Tim) Leedon TC N 7	Miami Beach, Fla.
Moore, Sherwood Edgar TC C 5	Daytona Beach, Fla.
Moore, William Simpson TC N 1	Gary, Ind.
Mooring, Francis Paul TC C 7	Rocky Mount, N. C.
Morfit, John Campbell, Jr. TC C 5	St. Louis, Mo.
Morgan, Alton Carroll TC N 3	Winston-Salem, N. C.
Morgan, Charles Edwin TC M 5	Albertville, Ala.
Morganthau, John Lewis, Jr. TC C 7	Elizabethtown, N. Y.
Moring, Bernard Christopher, Jr. TC M 1	Norfolk, Va.
Morris, George Cooper TC N 4	Beaumont, Texas
Morris, John Robert TC N 3	Youngstown, Ohio
Morris, Robert Cullom EC C 10	Winnetka, Ill.
Morris, Wayne Gregory TC N 1	Dallas, Texas
Morrison, Edwin Orville EC C 7	Arlington, Mass.
Morrison, Francis Warren TC N 3	Daytona Beach, Fla.
Morrow, Richard Carl TC M 1	Wyandotte, Mich.
Morton, David Lindsay TC C 7	Charlotte, N. C.
Moss, Daniel EC C 1	Durham, N. C.
Mote, Henry Kelley TC M 5	Hapeville, Ga.
Muller, Donald Harvey EC N 3	Brooklyn, N. Y.
Mulligan, Alla Purse, Jr. TC C 3	Greensboro, N. C.
Mullinnix, Ralph Charles TC N 3	Indianapolis, Ind.
Mullins, Harold Winston TC C 1	Keaton, Ky.
Mundie, Donald Robertson TC N 5	Kenmore, N. Y.
Munro, Owen Burton TC N 5	Biloxi, Miss.
Murchison, Clinton Williams, Jr. EC M 5	Dallas, Texas
Murphy, Billy Jack TC M 9	Siloam Springs, Ark.
Murray, John Walter, Jr. TC M 7	Raleigh, N. C.
Murray, Robert Filgo TC C 3	Lenoir, N. C.
Musselman, Elmer LeRoy TC N 1	Plano, Ill.
Musselman, Frank Butts TC M 5	Enfield, N. C.
Myatt, Ernest George TC N 1	Raleigh, N. C.
Myatt, Robert Woodall TC N 5	Durham, N. C.
Myers, Alton Ray TC M 6	Eustis, Fla.
Myers, Charles Rudolph EC C 6	Haddonfield, N. J.
Myers, James Arthur TC M 7	Madison, W. Va.
Myers, Joe Thomas EC N 7	Kent, Ohio
Myers, Ralph Bernard TC N 5	Canton, Ohio
Myers, Robert Eugene TC N 1	Clinton, Ill.
Nanke, John Arthur TC N 1	Haddon Heights, N. J.
Nanni, Roger Americo TC M 7	Pittston, Pa.
Nason, William Preston TC M 5	Sturgis, Miss.
Natterson, Joseph Morton TC N 3	Wheeling, W. Va.
Nauman, Robert Vincent TC C 7	East Stroudsburg, Pa.
Neal, Charles Warren TC N 4	Oak Hill, W. Va.
Nease, Edgar Harrison, Jr. TC C 3	Salisbury, N. C.
Nedvins, Ernest Joseph EC M 7	Dorchester, Mass.
Nelson, Donald Palmer TC C 1	Pinehurst, N. C.
Nelson, Joseph Lee, Jr. EC M 5	Norfolk, Va.
Nelson, Richard Ellwood EC C 8	Swissvale, Pa.
Newby, Louis Llewellyn, Jr. TC M 7	Norfolk, Va.

Newcomb, Nelson Faulks TC N 2	Roselle, N. J.
Newcomb, Robert Timberlake, Jr. EC C 6	Raleigh, N. C.
Newell, William Badger TC N 5	Roxboro, N. C.
Newhall, Wilber James, IV TC N 5	Hollywood, Fla.
Newman, Delbert Paul TC M 5	Clinton, Wisc.
Newsom, Ernest Edward EC N 7	Durham, N. C.
Newton, Ernest Cliborne TC N 1	Skipwith, Va.
Newton, Robert Lee TC N 2	Durham, N. C.
Nicholas, James Ernest EC M 6	Frisco City, Ala.
Nicholson, Henry Hale, Jr. TC C 7	Statesville, N. C.
Nicholson, William Henry TC N 1	Durham, N. C.
Nickels, William Washington, Jr. TC N 3	Bristol, Tenn.
Nickerson, Marcus Franklin, III TC N 1	Knoxville, Tenn.
Nielsen, Harry Otto TC M 7	Washington, D. C.
Nietman, Robert Frederick TC N 5	Long Island, N. Y.
Nist, Donald Edward TC N 1	Chicago Heights, Ill.
Nivens, Scott Alexander EC C 2	Charlotte, N. C.
Nixon, Dalbro Russell, Jr. EC M 7	Elizabeth City, N. C.
Noble, Gerald Stewart TC M 1	Chicago, Ill.
Noell, John Henley TC M 5	Shelby, N. C.
Nolan, John William TC N 5	Waterbury, Conn.
Nolte, Henry Ralston, Jr. TC N 5	New York, N. Y.
Nordin, Warren Alfred TC N 1	La Grange, Ill.
Nordmann, Thomas Edward TC M 5	De Land, Fla.
Nordstrom, Frank B. TC N 1	Glen Ellyn, Ill.
Norris, Robert Willingham EC N 3	Chattanooga, Tenn.
Northup, Aldrich Holt TC N 2	Pensacola, Fla.
Norton, Ethelbert Graham TC N 6	Birmingham, Ala.
Novick, Jerome Francis TC M 5	Frackville, Pa.
Nunnally, James Ray TC N 3	Hugo, Okla.
Oakes, William James TC N 1	Van, Pa.
Oast, William Henry, Jr. TC M 7	Portsmouth, Va.
O'Callaghan, Thomas Patrick TC M 7	St. Petersburg, Fla.
O'Connor, Robert Wesley TC M 6	Brooklyn, N. Y.
Oder, Robert James TC N 3	Toledo, Ohio
O'Donnell, Walter Edward TC N 6	Worcester, Mass.
O'Kane, Calvin Russell TC C 5	Columbus, Ohio
Olem, Aaron Melvin TC N 1	Mattapan, Mass.
Olive, Ryland Wrenn, Jr. EC C 1	Charlotte, N. C.
Oliver, Benjamin Lee TC M 7	Hampden Sydney, Va.
Olliff, Charles Kendrick TC M 5	Oriedo, Fla.
O'Neal, John Thomas TC N 1	Washington, N. C.
Orbish, Vincent Albin TC N 1	Dickson City, Pa.
Ornoff, Harold EC C 3	Durham, N. C.
Orput, Robert Edward TC M 7	Phoenix, Ariz.
Orth, Michael David TC M 1	Milwaukee, Wis.
Ott, Lloyd Ballenger, Jr. EC M 7	Linesville, Pa.
Ould, James Palmer, Jr. TC M 4	Miami, Fla.
Owen, David Shreve TC M 1	Lancaster, Ohio
Owen, Herman William TC N 5	New York, N. Y.
Owen, Homer Edwin TC M 3	Columbia, Tenn.
Owen, Jean Worth TC M 3	Tallahassee, Fla.
Owen, Lewis Hagood TC C 7	Durham, N. C.
Owen, Lincoln TC C 1	Cleveland, Ohio
Owen, William Edison TC M 3	Washington, D. C.
Oyen, William TC N 1	Chicago, Ill.
Pablo, Herbert Sebastian TC N 3	Miami, Fla.
Pace, Sherman Homer TC C 7	St. Petersburg, Fla.
Pace, Thomas Marshall EC C 2	Pensacola, Fla.
Pachuki, Benjamin Joseph TC C 3	Wallingford, Conn.

Page, Ernest Benjamin, Jr. TC N 1	Raleigh, N. C.
Palenske, John Bowen TC N 3	Wilmette, Ill.
Pallo, Raymond Joseph TC M 1	Milwaukee, Wisc.
Palmer, Harry Hyde TC C 7	Tarboro, N. C.
Palmer, Walter Weidman TC N 3	Easton, Pa.
Palmer, William Jacob, Jr. EC N 3	Baltimore, Md.
Parker, James Sheldon TC N 5	Flint, Mich.
Parkhurst, Robert Louis TC M 5	Montclair, N. J.
Parnell, Richard Allan EC N 3	Kyle, W. Va.
Parrish, Henry Carleton, Jr. TC M 3	Richmond, Va.
Parsons, David Willard TC N 3	Louisville, Ky.
Past, Si Alexander, Jr. TC M 3	Chattanooga, Tenn.
Patch, Joseph Dorst, Jr. TC M 5	Washington, D. C.
Patience, Kurt Dixon TC M 5	St. Augustine, Fla.
Patram, Garland Loving TC N 1	Richmond, Va.
Patrick, Henry Lawrence TC M 7	Kings Mountain, N. C.
Patton, George Erwin EC M 7	Franklin, N. C.
Patton, James Doddridge, III TC M 7	Richmond, Va.
Patton, Michael Franklyn TC C 1	Spartanburg, S. C.
Paul, George Curtis TC N 5	Flat River, Mo.
Payne, John Edward TC N 1	Clayton, N. C.
Payseur, Coyt Reed TC N 1	Charlotte, N. C.
Paytash, Joseph, Jr. TC N 1	Lafferty, Ohio
Pearse, Harold Reginald, Jr. TC M 1	Chicago, Ill.
Pearson, Emmett Clark TC M 5	Paola, Fla.
Peck, James William TC C 9	Summersville, W. Va.
Peebles, Cecil Melvin TC N 1	Oxford, N. C.
Peebles, Withers Goodwyn TC M 5	Mooresville, Ala.
Peele, William Oscar, Jr. TC N 1	Williamston, N. C.
Peer, Edward Calvin TC C 1	Verona, N. J.
Pendergraph, William Lawrence TC N 1	Haw River, N. C.
Pendleton, Arthur Collins TC N 5	Charlotte, N. C.
Pennnigton, Schuyler Wayne TC C 1	Mt. Holly, N. C.
Pennington, Walter Stokes, Jr. TC N 1	Norfolk, Va.
Pentecost, William Vaughan, Jr. TC M 7	Atlanta, Ga.
Perkins, William Allan TC M 1	Charlottesville, Va.
Perry, James Warden TC N 1	Oak Hill, W. Va.
Perry, John Wesley TC M 7	Raleigh, N. C.
Petersen, Charles Andrew TC N 1	Elgin, Ill.
Peterson, Herrick Roland TC N 3	Day Book, N. C.
Peterson, James Hardin, Jr. TC C 1	Lakeland, Fla.
Peterson, Jim Neil TC M 7	Saperton, Ga.
Peterson, Theodore Thomas TC N 1	Easton, Pa.
Peyton, Thomas Pendleton, III EC M 3	Crozet, Va.
Philips, Herman Garland, Jr. EC N 2	Norfolk, Va.
Phillips, Charles Anthony TC N 1	Man, W. Va.
Phillips, John Drury EC M 1	Hingham, Mass.
Phillips, Martin TC N 1	Fall River, Mass.
Phillips, Robert Derrick TC N 3	Atlanta, Ga.
Phillips, Samuel Lafayette, Jr. TC M 7	Wing, N. C.
Phipps, Donald Alton TC N 1	Canastata, N. Y.
Piccone, Domenic TC N 1	Ardmore, Pa.
Pickett, John Philip TC M 5	Charleston, S. C.
Pickett, Joseph Barney TC M 7	Pope, Miss.
Pierce, John Anthony, Jr. TC M 1	Arlington, Mass.
Piggsford, Roland Rayburn, Jr. TC N 3	Monongahela, Pa.
Pippin, John Burgess TC N 1	Quincy, Ill.
Pittman, Luther Hollingsworth TC N 3	Baltimore, Md.
Pitts, Marvin Houston TC M 3	Mt. Pleasant, Tenn.
Pitts, Noah Odas, Jr. TC N 6	Glen Alpine, N. C.

Plank, Robert Kenneth TC C 1	Union Bridge, Md.
Plant, Frank Morell TC M 5	Opelika, Ala.
Plaze, Edward Peter TC C 7	New Britain, Conn.
Plessner, Fred TC N 3	Great Neck, N. Y.
Poe, William Boyd TC M 6	Durham, N. C.
Polokoff, Edwin TC N 7	Poughkeepsie, N. Y.
Pool, Stedman Charles TC N 3	Norfolk, Va.
Porter, Edmund Waddill TC C 1	Wilson, N. C.
Poss, Summie Jewell, Jr. TC M 7	Athens, Ga.
Poteat, Thomas Lawton TC N 4	Durham, N. C.
Potter, Robert Daniel TC C 7	Wilmington, N. C.
Povlsen, Paul Kristian, Jr. TC N 1	Racine, Wisc.
Powell, Harry Rutter EC N 3	Norfolk, Va.
Powell, John Lynn TC C 5	Wichita, Kan.
Powell, Robert William, Jr. TC N 3	Goldsboro, N. C.
Powers, Richard Walter, Jr. EC M 1	Pittsford, Vt.
Preslar, Arthur Joe, Jr. TC C 7	Hickory, N. C.
Preslar, Glenn Little TC C 1	Hickory, N. C.
Preslar, Mack Judson EC C 1	Durham, N. C.
Preston, Paddison Wade TC M 7	Kernersville, N. C.
Price, William Henry TC N 8	Monroe, N. C.
Primm, Arthur Weeks TC N 7	Miami, Fla.
Primm, Walter Rogers TC N 5	Miami, Fla.
Pringle, Donald Edland TC N 7	Guilford College, N. C.
Pritchard, Robert Grant TC N 9	Reading, Pa.
Procopion, Samson John EC N 3	Waterbury, Conn.
Propps, Henry Mason TC M 6	Fayetteville, W. Va.
Pugh, Leslie Lile, Jr. TC M 7	Harrisonburg, Va.
Pully, Forrest Becton EC M 7	Kinston, N. C.
Pursley, William Knox TC C 2	Clover, S. C.
Purvis, David Regon TC M 3	Tampa, Fla.
Rabenberg, Jack Rodney TC N 2	Lime Spring, Iowa
Rabley, Joseph Edward TC N 3	Chelsea, Mich.
Raedy, John Joseph TC N 4	Washington, D. C.
Rainer, Mark Ashely, Jr. TC M 7	Bellamy, Ala.
Ralph, Donald Barnes TC N 1	Newburgh, N. Y.
Ramey, Robert Lee EC CG 3	Middletown, Ohio
Rancke, John McMillan TC C 1	Lumberton, N. C.
Rand, Julian Arey TC N 7	Raleigh, N. C.
Ranon, Severin Donald EC N 3	Irvington, N. J.
Ranson, William A. TC N 5	Charlotte, N. C.
Ranta, Wilhart Mathew TC CG 5	Sault Ste. Marie, Mich.
Rapp, Robert Cullen TC C 1	Thomasville, N. C.
Rasar, Ernest Eugene TC M 7	Elizabethton, Tenn.
Ratzel, Arthur Cleveland TC N 1	Brooklyn, N. Y.
Raup, William Wagner TC N 5	Arlington, Va.
Rawls, John Lewis, Jr. TC N 3	Suffolk, Va.
Ray, Charles Alexander, Jr. TC M 7	Wesson, Miss.
Ray, Wilmer Herrington TC M 7	Wesson, Miss.
Read, William Marsden, III TC N 3	Maywood, N. J.
Reamer, Richard Daniel EC C 8	Franklin, Pa.
Reams, Hugh Etherton TC N 5	Toledo, Ohio
Reardin, Charles Richard, Jr. TC N 1	Fair Lawn, N. J.
Reaves, Edwin LeRoy TC C 3	Asheboro, N. C.
Reckenbeil, Arthur Jacob EC N 3	New Hyde Park, N. Y.
Redd, Wallace Lee TC N 1	Lexington, S. C.
Reddoch, James Folmar TC M 5	Luverne, Ala.
Rees, Harold Bernard TC N 3	Baltimore, Md.
Regal, James Edison TC M 1	Akron, Ohio
Reid, James Herbert, Jr. EC M 7	Ethel, W. Va.

Reinschmidt, Julian Stephen TC C 1	Pensacola, Fla.
Rementer, George Wilson, Jr. TC N 5	Aldan, Pa.
Remmey, John Grouch, Jr. TC N 3	Philadelphia, Pa.
Reyle, John Edward EC C 3	Radburn, N. J.
Reynierson, John Oscar, Jr. TC M 3	Lexington, Ky.
Reynolds, James Edward, Jr. TC M 3	Camden, N. J.
Rhett, Albert Haskell EC M 5	Westfield, N. J.
Rice, Charles Fenton, Jr. EC N 3	Durham, N. C.
Rice, Walter Bernhard TC C 1	Greenville, S. C.
Rice, William Elbert TC M 1	Duncan, Ariz.
Richard, Carroll Jordan TC M 5	Covington, Va.
Richardson, Frank Perry TC M 1	Nashua, N. H.
Richardson, John Burnie TC M 5	Auburn, Ala.
Richeson, John Minor EC M 7	Hazlewood, N. C.
Richey, John Aubrey TC M 3	Leesburg, Fla.
Richwine, Samuel Winters TC M 3	Washington, D. C.
Rickert, Robert Dale TC N 3	Tuckahoe, N. Y.
Riddle, Charles Harvey, Jr. EC M 7	Sanford, N. C.
Ridenhour, Robert Lee TC N 3	Kannapolis, N. C.
Riehl, William Lawrence, Jr. TC N 1	Teaneck, N. J.
Riemer, Harry Walter TC C 1	Pittsburgh, Pa.
Riggall, Arch John, Jr. TC C 5	Huntington, W. Va.
Riggin, Harold Goodwin TC M 5	Exmore, Va.
Riggsbee, William Arthur, Jr. TC M 5	Sanford, N. C.
Rigsbee, Albert Vinson TC N 1	Durham, N. C.
Riley, Joseph Paul TC N 3	Tampa, Fla.
Risden, Robert Joseph TC M 1	Newark, N. J.
Rita, George Thomas TC N 3	Chevy Chase, Md.
Ritter, James Martin EC N 7	Sandusky, Ohio
Rivers, Charles Guy EC N 3	New Rochelle, N. Y.
Roach, Francis Lawrence TC N 1	Chicago, Ill.
Roach, James Anthony TC N 1	Toledo, Ohio
Roan, John Sylvester, Jr. TC M 3	Pattison, Miss.
Robbins, Albert Lee, Jr. EC M 3	Greenfield, Tenn.
Robbins, David Williamson TC M 7	Riverton, N. J.
Roberson, Joseph Philmore TC M 7	Washington, N. C.
Roberts, Jack Melvin TC N 1	Detroit, Mich.
Roberts, Levi James TC N 2	Norfolk, Va.
Roberts, William Frederick TC M 2	Flint, Mich.
Robertson, Albert TC N 5	Miami, Fla.
Robie, John Alfred TC M 1	Lyndonville, Vt.
Robins, Clifford Benjamin, Jr. TC M 1	Tonawanda, N. Y.
Robins, Robert Louis TC N 5	Harrisburg, Pa.
Robinson, James Arlington TC M 3	Chattanooga, Tenn.
Rocker, Charles Lamar TC C 1	Lakeland, Fla.
Rodgers, Ralph John, Jr. TC N 5	Dayton, Ohio
Rogers, Bryan Allen TC C 1	Akron, Ohio
Rogers, Henry Moore, Jr. TC N 3	Wilson, N. C.
Rogers, Ira Bascomb, Jr. TC M 5	Maryville, Tenn.
Rogers, James William TC M 4	Childress, Texas
Rogers, Ralph Peele, Jr. TC N 1	Durham, N. C.
Rogers, Richard Ovid, Jr. TC C 1	Bluefield, W. Va.
Rogers, William Edwin TC N 7	Durham, N. C.
Rose, Duke Jack TC N 5	Dallas, Texas
Rose, Lester William TC C 1	Durham, N. C.
Rose, Ronald Seymour EC N 5	Durham, N. C.
Rose, Russell Albert EC N 5	Dallas, Texas
Rosen, Leonard Emanuel TC C 3	Englewood, N. J.
Rosenberg, Alvan Frederick TC C 3	Newtonville, Mass.
Rosenthal, Marvin Daniel TC N 4	Baltimore, Md.

Ross, Patrick Donald, Jr. TC C 1	Cary, N. C.
Ross, Phife Charles TC N 1	Kannapolis, N. C.
Rozel, James Page TC M 1	Markham, Va.
Rountree, Albert Converse, Jr. EC C 5	Charlotte, N. C.
Rouse, Egbert Thomas TC M 7	Grifton, N. C.
Rowe, Frank Hamett, Jr. EC N 3	Washington, D. C.
Rudy, Robert Lee TC N 1	Osborn, Ohio
Runyan, John William, Jr. TC N 6	Memphis, Tenn.
Russell, Donald, Jr. EC C 1	Hamden, Conn.
Russell, Douglas McNair TC M 5	Dillon, S. C.
Russell, George Thompson EC C 1	Hamden, Conn.
Rute, Charles Robert TC M 7	Easton, Pa.
Ryan, John Edward TC N 3	Villanova, Pa.
Sacrinty, Otis Mack TC M 5	Reidsville, N. C.
Sailer, Rowland Walter TC M 7	Philadelphia, Pa.
Sale, Edward Dalton TC N 2	High Point, N. C.
Sales, Thomas David EC N 7	Phillipsburg, N. J.
Salisbury, Thomas Garrison, II TC N 1	Brooklyn, N. J.
Salomone, Philip Leonard TC M 7	Knoxville, Tenn.
Sandberg, Theodore, Ernest TC N 3	Massillon, Ohio
Sanders, George Jamie TC C 3	McCormick, S. C.
Sanders, James Burrell TC C 1	Columbia, S. C.
Sanger, Kenneth Edward EC N 5	New York, N. Y.
Sarazen, Paul Mark, Jr. TC N 3	White Plains, N. Y.
Sattler, George Richard EC M 3	Crestwood, N. J.
Saturday, Harrison Kenneth EC N 3	Durham, N. C.
Saunders, Llewellyn Corwin EC C 5	Irvington, N. J.
Saunders, Robert Neal EC N 3	Medina, N. Y.
Saunders, Stanley Stewart EC N 2	High Point, N. C.
Savage, Malcolm Brooks TC M 3	Modest Town, Va.
Savedge, Charles Eugene TC N 8	Richmond, Va.
Sax, Leonard Leward TC M 1	New York, N. Y.
Scanlon, William John EC N 2	Endicott, N. Y.
Scates, Julian MacDonald TC N 3	Fulton, Ky.
Schafer, Richard Lewis TC N 3	Philadelphia, Pa.
Schirmer, Charles Albert TC N 5	Saginaw, Mich.
Schneider, Ralph Russell EC N 5	Queens Village, N. Y.
Schnell, Charles Norman TC N 3	Cranbury, N. J.
Schoenlaub, Paul Wallis EC M 3	Parris Island, S. C.
Schoenleber, William Barnes TC N 1	Philadelphia, Pa.
Schroeder, Hobart Arthur EC N 3	Torrington, Conn.
Schuman, Eugene Stockton TC N 7	Pittsburgh, Pa.
Schuurman, Richard Bernett TC N 1	Midland Park, N. J.
Schwarz, Arthur David TC M 7	Houston, Texas
Schwartz, Lawrence Michael TC N 5	Brooklyn, N. Y.
Schwartz, Stephen Wise TC N 3	Woodmere, N. Y.
Schweinfurth, Joseph David TC N 2	Bellefontaine, Ohio
Scollard, Robert Joseph TC C 1	White Plains, N. Y.
Scott, James Allen TC N 5	Polkville, N. C.
Scott, Kenneth McCoy EC N 2	Charlotte, N. C.
Scott, Robert Archibald, Jr. TC M 2	Bedford, Va.
Scott, Walter, Jr. TC N 2	Baltimore, Md.
Seay, Thomas Waller, Jr. TC C 1	Spencer, N. C.
Secrest, Andrew McDowd, Jr. TC N 7	Monroe, N. C.
Secrest, Vann Vanderlyn TC N 7	Monroe, N. C.
Sedwick, Benjamin Frank TC N 3	Baltimore, Md.
Seeley, Dunham Briggs EC N 2	Scranton, Pa.
Sellers, Robert Nesbit EC N 3	Clarksdale, Miss.
Sengel, William Randolph TC N 7	Fort Smith, Ark.
Sewell, Dave Waring TC N 1	Greensboro, N. C.

Shallcross, Russell Ernest TC N 1	Collingdale, Pa.
Shanahan, John Rush TC N 4	Washington, D. C.
Shannon, Charles Melvin, Jr. TC M 5	Mt. Jackson, Va.
Sharkey, Frederick Albert, III EC N 5	Wildwood Crest, N. J.
Sharp, James Vance TC N 3	Reidsville, N. C.
Sharpe, James Brown TC N 3	East Orange, N. J.
Shaver, Thomas Edgar TC N 3	Goldsboro, N. C.
Shaw, Alexander von Skrobotof Cleves, III EC M 5	North Miami, Fla.
Shaw, John William TC N 2	Jacksonville, Fla.
Shaw, Walter Norman TC N 5	Penns Grove, N. J.
Shelley, Albert Joe, Jr. TC N 1	Hamlet, N. C.
Shepard, Kenneth Sihler TC C 7	Evanston, Ill.
Sheptow, Edward Richard EC C 3	Erie, Pa.
Sheridan, Robert John TC C 7	Weehawken, N. J.
Sherman, Alfred Jay TC N 2	Harrisburg, Pa.
Sherman, Richard Philip TC C 1	Goldsboro, N. C.
Sherwood, Horace Moore, Jr. TC N 5	Coral Gables, Fla.
Shindler, John Thomas TC N 3	Newburgh, Ind.
Shleffar, Morton TC M 5	Yonkers, N. Y.
Shoemaker, Frank Jerry EC N 3	Scranton, Pa.
Shugar, Gilbert Lee TC N 1	Tarboro, N. C.
Shumpert, Gerald Wayne TC M 5	Trepelo, Miss.
Shy, DeWitt Malone TC M 5	Memphis, Tenn.
Siebenheller, William Arvid TC N 5	Staten Island, N. Y.
Sigmon, Algernon Festus, Jr. TC M 1	Hickory, N. C.
Siker, Ephraim Solomon TC C 1	Port Chester, N. Y.
Silver, Earl Alexander TC N 5	Chattanooga, Tenn.
Silver, Norman Jay TC C 3	New York, N. Y.
Simmons, Loyd Donald TC N 1	Olney, Texas
Simmons, Mitchell McClay TC N 1	Mt. Airy, N. C.
Simmons, Robert Randolph, Jr. TC N 1	Rockingham, N. C.
Simon, John B. TC N 3	Newark, N. J.
Simons, Lawrence Brook TC C 4	Staten Island, N. Y.
Simpson, Zachary TC C 2	Charlotte, N. C.
Sims, Harlan Kessle TC N 1	Wilmington, Ohio
Sims, Jim TC M 4	Birmingham, Ala.
Sims, John Boland TC M 3	Beaufort, S. C.
Sincell, Robert Benjamin TC N 1	Oakland, Md.
Sinskey, Robert Marshall TC N 6	Baltimore, Md.
Skarstrom, John Halstein TC C 5	Brooklyn, N. Y.
Slaughter, Grimes Gibbons EC C 3	Rockingham, N. C.
Sloan, Malcolm Vernon TC M 7	Columbia, S. C.
Small, Herbert Wesley, III EC C 2	Charlotte, N. C.
Smart, Roy Louis, Jr. TC C 7	Charlotte, N. C.
Smeltzer, James Loughrey TC C 7	Youngstown, Ohio
Smith, Anderson Benskin, Jr. TC N 1	Norge, Va.
Smith, Arthur George, Jr. TC C 7	Binghamton, N. Y.
Smith, Chandler Sparkman TC N 7	Robersonville, N. C.
Smith, Clarence Franklin, Jr. TC C 3	Louisville, Ky.
Smith, David Dawson TC C 1	Logan, W. Va.
Smith, Edwin Eugene, Jr. TC N 6	Wollaston, Md.
Smith, Edwin James EC C 2	Ft. Myers, Fla.
Smith, Ernest Wendell TC C 5	Charlotte, N. C.
Smith, Herbert Derrick, II TC N 5	West Chester, Pa.
Smith, Herbert Green, Jr. TC N 5	Lenoir, N. C.
Smith, Herman Amasa TC M 7	Greensboro, N. C.
Smith, Howard Kenneth TC C 5	Winston-Salem, N. C.
Smith, James Daniel TC C 5	Rochester, N. Y.
Smith, John Watson TC N 5	Pinehurst, N. C.

Smith, Lester Berry, Jr. TC M 7	Charlottesville, Va.
Smith, Lucius Stone TC N 6	Rome, Ga.
Smith, Raymond Alfred TC N 3	Mt. Airy, N. C.
Smith, Robert MacLeod TC N 3	Wilmington, N. C.
Smith, Stuart Cameron TC C 5	Staten Island, N. Y.
Smith, Whitefoord, Jr. TC C 3	Charlotte, N. C.
Smith, William Arthur TC C 3	Camden, S. C.
Smolen, Elliott Edwin TC M 5	Atlanta, Ga.
Smurthwaite, Paul Malcolm, Jr. EC N 3	Coatesville, Pa.
Snell, Charles Wallace, Jr. EC M 7	Columbia, N. C.
Snitger, William Herman, III TC N 5	Beaver, Pa.
Snow, Grover Perry EC N 3	Raleigh, N. C.
Snyder, John Emmanuel Daniel TC M 7	Masontown, Pa.
Somerville, John Henry TC N 3	Cumberland, Md.
Sousa, Joseph Arthur EC M 1	Wakefield, Mass.
Southall, Carey Thomas, Jr. TC M 5	Palatka, Fla.
Sowdon, Arthur Whitlock, Jr. TC N 5	Tarrytown, N. Y.
Spandorfer, Lester Malvern EC M 1	Norfolk, Va.
Sparrow, James Thomas, Jr. TC M 5	Birmingham, Ala.
Spector, Ronald Gordon TC M 5	Richmond, Va.
Speidel, Charles Frederick EC C 4	Rochester, N. Y.
Spence, Talmage Tolly, Jr. TC N 1	Raleigh, N. C.
Speth, Charles Theodore TC N 7	South Temple, Pa.
Spilman, Walter Mitchel TC M 5	Washington Grove, Md.
Sprosty, Allan Elmer TC M 1	Lakewood, Ohio
Spurgeon, Charles Randolph TC N 5	Uniontown, Pa.
Stackable, William Robert TC N 3	Chicago, Ill.
Staley, Joseph Richard TC C 1	Frederick, Md.
Stancik, Edwin Edward TC M 1	Chicago, Ill.
Stanley, Arleigh Childress TC N 1	Tyler, Texas
Stark, Alvin TC N 3	Baltimore, Md.
Stasulli, John Michael TC M 7	Washington, D. C.
Steele, Albert Johnston EC N 5	Pittsburgh, Pa.
Steele, Curtis Edward EC M 7	Jacksonville, Ala.
Steffey, John Wesley TC N 1	Baltimore, Md.
Stegman, Kenneth Francis TC N 1	Chicago, Ill.
Stein, Arthur Matthew TC N 5	Rutherford, N. J.
Stein, James Richard TC C 3	Detroit, Mich.
Stender, Herbert Roland, Jr. TC M 5	Charleston, S. C.
Stepbach, Robert Frank, Jr. EC N 3	Binghamton, N. Y.
Stephan, Edwin Audly TC N 5	Trenton, N. J.
Stephens, Bart Nelson TC C 7	Newport, R. I.
Stephens, Robert Woodward TC N 3	Gainesville, Fla.
Stephenson, Thomas Neblett EC N 7	Raleigh, N. C.
Sterrett, Donald Hewett EC N 6	Philadelphia, Pa.
Stevenson, Edward Ward TC N 1	Craigsville, Va.
Stewart, Franklin Burton TC M 7	Sparta, Tenn.
Stewart, Grant Mathews TC N 3	Lenoir, N. C.
Stewart, Henry Bowdle TC M 3	Philadelphia, Pa.
Stewart, Henry Watson TC N 5	Charlotte, N. C.
Stockslager, Edwin Stevens, Jr. EC N 2	Westfield, N. J.
Stockstrom, Louis, II EC C 1	Clayton, Mo.
Stodgsdill, Willis Wordsworth TC N 1	Bloomington, Ind.
Stokes, Hugh Bertrand, Jr. EC N 2	Charlotte, N. C.
Stone, George Rollins TC C 1	Portsmouth, Va.
Stone, Jack Mink TC M 1	Corbin, Ky.
Stone, Robert Lee, Jr. EC N 3	Durham, N. C.
Stone, Thomas William, Jr. TC M 3	Gallatin, Tenn.
Storm, Walter Kerr TC N 5	Scarsdale, N. Y.
Stott, Grady Bernell TC M 6	Bailey, N. C.

Stoudenmire, Jehu Joseph TC M 5	Oswego, S. C.
Stovall, John Reed, Jr. EC C 10	Winston-Salem, N. C.
Stover, William Page EC C 5	Charlotte, N. C.
Stow, James George TC N 5	Port Chester, N. Y.
Strahan, John Franklin TC N 1	Catonsville, Md.
Strandberg, Charles F. TC C 1	Greensboro, N. C.
Stranieri, Frank Louis TC M 8	Clearwater, Fla.
Strasser, Frederick Lee, Jr. TC M 7	Wheeling, W. Va.
Straub, Paul Ferdinand TC M 7	Morgantown, W. Va.
Strause, Bernard Halle TC N 5	Richmond, Va.
Strickland, Grady Monroe, Jr. TC N 6	Clayton, Ala.
Strickland, Herbert Leonard TC M 5	La Grange, Ga.
Strickland, Marion Ortez TC M 12	Vidalia, Ga.
Strickman, Arthur Edwin TC N 3	Laurence, N. Y.
Strohm, Charles Fred, Jr. TC N 3	Cleveland, Ohio
Strone, Bernard William TC N 5	Perth Amboy, N. J.
Strotz, Charles Nicolas TC M 1	New York, N. Y.
Stroupe, Robert Edwin EC N 5	High Point, N. C.
Stroupe, Thomas Clinton TC C 1	Charlotte, N. C.
Stuart, John Bruce, Jr. TC N 3	South Orange, N. J.
Stulb, Joseph Albert, Jr. TC N 1	Jersey City, N. J.
Stull, Chester James, Jr. EC M 5	Roanoke, Va.
Styron, William Clark, Jr. TC M 3	Newport News, Va.
Suggs, Jacob Leroy, Jr. EC N 5	Durham, N. C.
Suhling, Edward Colhoun EC M 3	Lynchburg, Va.
Sullivan, Emerson Flavel EC N 3	Hickory, N. C.
Sulzer, Richard Lee TC N 3	New York, N. Y.
Summers, Howard Hasbrouck EC N 5	Norfolk, Va.
Sunderland, Ralph Kenneth TC N 1	Dearborn, Mo.
Sutherland, George Alex TC M 7	Eau Gallie, Fla.
Sutton, John Marshall TC C 1	Russell, Ky.
Swaringen, Charles Tillett, Jr. EC N 3	Greensboro, N. C.
Sweeney, Francis Joseph TC N 3	Pottstown, Pa.
Swindell, Herbert Anderson EC N 5	Durham, N. C.
Switzer, Lawrence Charles, Jr. TC M 7	Greenwood, S. C.
Sykes, Wiley Arnold, Jr. EC N 3	Greensboro, N. C.
Synan, Richard Tilson TC N 1	Bedford, Va.
Tailer, Peter Lorillard EC C 2	Norfolk, Va.
Tally, David Kenneth Taylor TC N 3	Fayetteville, N. C.
Tanner, Jack Ray TC N 3	Dublin, Ga.
Taplin, Winn Lowell, Jr. EC M 1	Bennington, Vt.
Tate, Joseph Ishmael TC M 3	Lexington, N. C.
Tatman, Alfred John EC N 5	Norfolk, Va.
Taylor, Ben Lee, Jr. TC M 5	Chattanooga, Tenn.
Taylor, Robert James TC N 5	Toledo, Ohio
Taylor, Robert Russell TC M 7	Kearney, N. J.
Taylor, William Francis TC N 6	Flushing, N. Y.
Taylor, William Warren TC C 1	Silver Spring, Md.
Teabeaut, James Robert TC C 5	Fayetteville, N. C.
Teabeaut, Thomas Allen EC C 1	Fayetteville, N. C.
Teasley, Jack Lamkin TC C 4	St. Albans, W. Va.
Tedesco, Frank Emil TC N 1	Newark, N. J.
Terrell, Ralph de Poix, Jr. EC C 3	Atlanta, Ga.
Terry, Charles Strong TC C 3	Laurel, Miss.
Terry, Howard Chester TC N 5	Hubbard, Ohio
Tewes, Joseph William, Jr. TC N 6	Baltimore, Md.
Tewksbury, John Sargent EC M 1	Watertown, Mass.
Theriault, John Philip EC N 7	Old Town, Maine
Thiel, Robert Besant TC N 3	Kearny, N. J.
Thomas, Frank Almerine, Jr. EC M 3	Uniontown, Ala.

Thomas, Paul Adonis TC N 1	Parkersburg, W. Va.
Thomas, Sidney Albert TC C 1	Winston-Salem, N. C.
Thompson, Arthur Russell EC M 3	Mill Spring, N. C.
Thompson, Charles Welland TC M 1	Daytona Beach, Fla.
Thompson, Harold Gale TC N 1	Bratherd, Minn.
Thompson, Lawrence Charles EC M 1	Derby, Vt.
Thompson, Oscar Mills EC N 3	Rockingham, N. C.
Thompson, Robert Hicks TC C 5	Dublin, Ga.
Thompson, Walter Lowry EC N 2	Bellevue, Pa.
Thompson, William Waudlaw, Jr. TC M 1	Virginia Beach, Va.
Thompson, William West TC C 8	Hallsboro, N. C.
Thornburg, Willis Herbert TC C 5	New York, N. Y.
Thorne, Silas Owens, Jr. TC C 5	Charlotte, N. C.
Thornton, Fleming Debenion, Jr. TC M 7	Sarasota, Fla.
Thorpe, Oscar William TC N 1	Richmond, Va.
Thorup, Kent Davis TC M 1	Chevy Chase, Md.
Thrower, Wendell Burton TC C 1	Ridgeville, S. C.
Tiberio, Henry Richard TC N 1	Molden, Mass.
Tierney, Edward Michael, Jr. TC M 7	Washington, D. C.
Tierno, Anthony Joseph TC N 1	Brooklyn, N. Y.
Tiffany, Lee Bronson TC N 1	Cameron, Wisc.
Tilley, Lester Archie, Jr. TC C 1	Roanoke Rapids, N. C.
Timpone, Peter Joseph TC N 3	Staten Island, N. Y.
Tisdale, John Byron TC M 5	Crestview, Fla.
Todd, Carl Nelson TC M 7	Broxton, Ga.
Tolles, Clifford Raymond EC N 3	West Haven, Conn.
Tolson, William Everett TC M 7	Norfolk, Va.
Tompkins, Christopher TC M 7	Washington, D. C.
Toomey, Thomas Murray EC M 5	Washington, D. C.
Trace, Keith B., Jr. TC N 2	Detroit, Mich.
Trapani, Umberto Luigi EC M 5	Savannah, Ga.
Trimble, James, III TC C 1	Washington, D. C.
Trimble, Lee Schackleforde TC M 5	Macon, Ga.
Trollinger, Joseph Lindsey TC N 3	Charlotte, N. C.
Troup, Robert Charles TC M 7	Danville, Ill.
Trovato, Raymond Robert TC N 3	Larchmont, N. Y.
Tucker, Audley De Forrest TC M 7	Lindale, Ga.
Tucker, Sterling Woodward TC C 7	Little Rock, Ark.
Tuckerson, Sidney Hugo TC N 1	Sayreville, N. J.
Turner, Clifford Mack TC M 3	Colburn, Va.
Turner, James Homer TC N 5	Tampa, Fla.
Turner, Kenneth Moten TC N 3	Durham, N. C.
Tuttle, James Gray TC C 3	Raleigh, N. C.
Tuttle, Roger Dinsmore TC N 3	West Palm Beach, Fla.
Uhl, Richard Duryea EC N 3	Glenside, Pa.
Upshaw, James Claud TC N 5	Coral Gables, Fla.
Van Camp, George David EC C 1	Southern Pines, N. C.
Van Leer, Blake Wayne EC N 3	Washington, D. C.
Van Leer, Ira Isaac TC M 3	New York, N. Y.
Vaughan, Clement Slusher TC M 5	Floyd, Va.
Vaughan, Lemuel Wilmer, Jr. EC N 2	Norfolk, Va.
Vaught, Francis Warren TC M 9	Uriah, Ala.
Veal, Joseph Holliday TC C 7	Madisonville, Ky.
Venable, Samuel Woodson EC C 5	Durham, N. C.
Vegliante, Neal John TC N 3	Hamden, Conn.
Vehe, Robert Richard TC N 7	Chicago, Ill.
Vickers, Laurence Otis TC C 1	Miami, Fla.
Vickery, John Farrar TC M 5	Atmore, Ala.
Villanueva, Charles Edward EC C 1	Orange, N. J.
Vissage, John Walter TC N 3	Walhalla, S. C.

Vollmer, Myles LeRoy TC N 1	Lewistown, Pa.
Wade, Gerald Wear EC M 5	Birmingham, Ala.
Wade, Henry Ormond TC N 1	Morehead City, N. C.
Waggoner, Lonnie Austine, Jr. TC N 3	Charlotte, N. C.
Wagner, Arthur Wallace TC N 1	Belleville, Ill.
Waide, Merrill, Jr. EC M 5	Miami, Fla.
Walker, I. C., Jr. TC C 3	Woodland, Ga.
Walker, Robert Gentry TC CG 3	Tuttle, Okla.
Walker, Woodrow Wilson TC N 5	Burlington, N. C.
Wall, Fletcher Hobson, Jr. TC N 3	Lexington, N. C.
Wall, Henry Frederick TC N 1	Dorchester, Mass.
Wall, Richard David EC C 3	Catonsville, Md.
Wallace, George Rodney TC M 1	Arlington, Va.
Walter, Robert Wheaton TC M 3	Port Washington, N. Y.
Wansker, Bernard Arthur TC C 1	Macon, Ga.
Wansker, William Charles TC N 5	Macon, Ga.
Ward, Cullen Matthew TC M 7	Auburn, Ala.
Ward, Frank Fordham EC N 3	Montclair, N. J.
Ward, William Littleton TC M 7	Cradock, Va.
Warner, Tim Goode TC C 1	Greensboro, N. C.
Warren, Harry Oliver, Jr. TC M 5	San Francisco, Cal.
Warren, James Gates TC M 5	Washington, D. C.
Warren, Joseph Benjamin TC N 2	Lenoir, N. C.
Warren, Max Gerald TC C 5	Raleigh, N. C.
Warriner, William Arundale TC M 6	Pontiac, Mich.
Washer, Robert Ralph TC C 3	Scranton, Pa.
Waters, Joe Frazier TC N 3	Johnstown, Pa.
Waters, Norman Brant TC M 4	Roseboro, N. C.
Wates, Byron Ernest EC M 7	Haleyville, Ala.
Watkins, John Mauldin, Jr. TC N 2	Greenwood, S. C.
Watkins, Raymond Wesley TC M 3	Emporia, Va.
Watson, Charles Spiginer TC M 7	Columbia, S. C.
Watson, Frank Yandle TC N 1	Charlotte, N. C.
Watson, Jake Irvin TC M 7	Hollywood, Fla.
Watson, Lucien Whitehead, Jr. TC M 2	Marianna, Fla.
Watson, Penn Thomas TC N 1	Wilson, N. C.
Watson, William Wood TC N 3	Eastham, Mass.
Watt, Edwin Glenn TC N 5	Charlotte, N. C.
Watt, William Vance TC N 3	Thomasville, Ga.
Watts, Arthur Lee, Jr. TC N 5	Huntington, W. Va.
Watts, Robert Johnson TC C 3	Louisville, Ky.
Weatherly, Carl Holmes, Jr. TC C 1	Leaksville, N. C.
Weatherly, Joseph Elwood TC N 3	Elizabeth City, N. C.
Weaver, Robert Lee TC N 3	Drexel Hill, Pa.
Weber, Arthur John TC C 1	Cumberland, Md.
Webb, Daryl Eugene TC N 3	Roanoke, Va.
Webster, Cletus Warren EC M 5	Dayton, Va.
Wechsler, Harry Leon TC N 5	McKeesport, Pa.
Wechsler, Leonard Burton TC C 1	McKeesport, Pa.
Weeks, Joe Richard TC N 2	Clarksdale, Miss.
Weeks, Rufus Heywood TC N 2	Charlotte, N. C.
Weidner, LeRoy A., Jr. TC C 1	Stony Creek Mills, Pa.
Weil, Richard Allen TC M 4	Pittsburgh, Pa.
Weinberg, Milton, Jr. TC C 5	Sumter, S. C.
Wells, David Allen TC N 3	Hapeville, Ga.
Wells, Richard Parkinson TC N 1	West Orange, N. J.
Wells, William Charles V., Jr. TC N 1	Delanco, N. J.
Wells, William Miles, Jr. TC C 3	Wilson, N. C.
Welsh, Robert Cooper TC C 5	Durham, N. C.
Welton, Robert Glenn TC M 7	Ellwood City, Pa.

Werner, Alfred Martin EC M 5	New York, N. Y.
Werner, Robert Eugene EC M 7	Altoona, Pa.
West, James Arthur, Jr. TC N 3	Wilmington, N. C.
Wester, Albert Clarence TC M 2	Avon Park, Fla.
Westmoreland, Larry Elmo, Jr. TC N 1	Canton, N. C.
Whalen, William Anthony, Jr. TC C 1	New Britain, Conn.
Wheatley, William Howard TC N 1	Chestertown, Md.
Wheeler, John TC N 3	Ridgewood, N. J.
Whichard, James Erwin EC N 3	High Point, N. C.
Whisnant, Louis Rodney TC M 3	Lenoir, N. C.
Whitaker, Seth Warner EC C 1	Windsor, Conn.
Whitaker, Thomas Early TC C 5	Oak Ridge, N. C.
White, David Craig TC C 5	Englewood, N. J.
White, Francis Earl TC M 5	Orlando, Fla.
White, Gerald Franklin TC C 1	Corapeake, N. C.
White, John Joseph TC M 4	New Orleans, La.
White, John Mercer, Jr. TC N 2	Richmond, Va.
White, Russell James TC N 1	Hilton Village, Va.
White, Weyman Erasmus TC N 1	Savannah, Ga.
Whitener, Fred William TC N 3	Shelby, N. C.
Whitley, Robert Bright TC M 5	Bethel, N. C.
Whitney, John Butler TC M 1	Quantico, Va.
Whitney, William Raymond TC M 5	Arlington, Va.
Whittington, James Gordon, Jr. TC N 1	Kannapolis, N. C.
Whyte, Donald Leslie TC N 3	Princeton, N. J.
Widerman, William Davis EC C 5	Haddonfield, N. J.
Wiggins, Eugene Selby, Jr. TC M 7	Richmond, Ky.
Wiggins, Ford Carroll TC N 5	Laurenceville, N. J.
Wiggins, Marvin Jones TC M 9	Smithville, Ga.
Wilchins, Lawrence Jack TC C 3	Cincinnati, Ohio
Wilcox, Gerald Eugene TC N 1	Wantoma, Wisc.
Wile, Peter Edwin TC N 3	New York, N. Y.
Wiles, John Herman TC N 7	Dayton, Ohio
Wilkie, Arthur Richard, Jr. TC N 5	Manchester, Conn.
Wilkins, Howard Coles TC N 4	Pine Bluff, Ark.
Wilkins, Robert Linwood TC M 7	Denton, N. C.
Willcox, Norman Cassell TC M 1	Norfolk, Va.
Willett, Robert Walter TC N 3	New York, N. Y.
Williams, Claude Bernard, Jr. EC N 6	Durham, N. C.
Williams, Deyo Joseph TC M 4	Jacksonville, Fla.
Williams, Edgar Donald, Jr. EC N 3	Durham, N. C.
Williams, Garland Hare, Jr. TC M 7	West Memphis, Ark.
Williams, James Edward, Jr. TC C 8	Durham, N. C.
Williams, John Kerr EC N 5	Charlotte, N. C.
Williams, John Richard TC N 1	Kenmore, N. Y.
Williams, Roger Davis TC C 3	Charlotte, N. C.
Williams, Roy Samp TC N 3	Miami, Fla.
Williams, Si Julian EC M 4	Evanston, Ill.
Williams, Spencer Benjamin TC N 1	Norfolk, Va.
Williams, Thomas Duke, Jr. EC C 1	Augusta, Ky.
Williams, Wade Hampton TC N 3	Charlotte, N. C.
Williams, William Swinney EC M 3	Lynchburg, Va.
Williamson, Edward Lorenza TC N 7	Cerro Gordo, N. C.
Williamson, John Samuel TC M 2	Hamlet, N. C.
Willis, David Steel, Jr. TC C 7	Raleigh, N. C.
Willis, Joseph William EC N 3	Ft. Lauderdale, Fla.
Willoughby, George Buford TC M 6	Camp Hill, Ala.
Willoughby, Robert Earl TC C 3	Detroit, Mich.
Wilmore, Frank Whittaker, Jr. EC M 8	Anniston, Ala.
Wilson, Leo Hughes TC N 7	Bradenton, Fla.

Wilson, Lewis Holliday, Jr. EC N 8	Greensboro, N. C.
Wimbrow, Charles Samuel TC N 3	Bridgeville, Del.
Winberry, Herman Stanford TC C 5	Mt. Olive, N. C.
Windham, Theron Johnson TC N 3	Columbus, Ga.
Winfield, Robert Allen TC N 2	Fort Wayne, Ind.
Wingfield, Robert Terrell TC N 3	Lynchburg, Va.
Wintner, Stuart Armin TC N 3	Shaker Heights, Ohio
Wise, Russell Clarence EC N 3	Wheeling, W. Va.
Witcover, David Carl TC C 1	Bethesda, Md.
Witschen, Bill Dietrich EC N 8	Jacksonville, Fla.
Witzel, Henry Fred, Jr. TC M 3	Maplewood, N. J.
Wolf, Aaron Joseph TC C 4	Baltimore, Md.
Wolf, Theodore Frederick TC M 2	Minneapolis, Minn.
Wolfe, James Boyd, Jr. TC M 7	Greensboro, N. C.
Wolfe, Joseph Garland TC M 3	Greensboro, N. C.
Wolfe, William Raymond TC N 3	Verona, Pa.
Wolff, Robert Stanley TC N 3	Rhodesdale, Md.
Wolff, Thomas Conrad, Jr. TC N 3	Baltimore, Md.
Wood, Clarence Robert, Jr. EC C 3	Durham, N. C.
Wood, James Edwin TC N 3	Charlottesville, Va.
Wood, James Robert TC N 3	Norfolk, Va.
Wood, Paul Andrew TC M 1	Gary, Ind.
Woodall, Charles Marion TC M 5	Moultrie, Ga.
Woodall, Jacob Augustus, III TC N 1	Durham, N. C.
Woodbridge, Earl Byron, Jr. TC N 3	Tamaqua, Pa.
Woodham, Jesse Carmichael, Jr. EC M 8	Barwick, Ga.
Woodrow, Gerald James TC N 1	Chicago, Ill.
Woodruff, John Graham EC C 3	Winston-Salem, N. C.
Woods, Mark Andrew TC C 1	Bluefield, W. Va.
Woolard, Jodie Dee, Jr. TC N 1	Williamston, N. C.
Wolley, Lloyd Lester TC N 1	Southern Pines, N. C.
Wooten, John Lemuel TC C 5	Greenville, N. C.
Workman, Cecil Alexander TC N 1	Charlotte, N. C.
Worth, George Williams EC M 7	Raleigh, N. C.
Wrenn, Richard Nickles TC N 8	Anderson, S. C.
Wright, Homer, Jr. TC M 9	Auburn, Ala.
Wright, Rollin Gene TC M 1	Van Nuys, Calif.
Wright, William A., Jr. TC C 1	Youngstown, Ohio
Wright, William Hobart, Jr. TC M 5	Knoxville, Tenn.
Yancey, Clyde Campbell TC C 1	Greensboro, N. C.
Yantis, Earl Edward TC N 5	Atlanta, Ga.
Yarbrough, Caesar Augustus, Jr. TC M 7	Macon, Ga.
Yard, Chester Arthur, Jr. TC C 3	Webster Groves, Mo.
Yautz, George Steven EC C 5	New York, N. Y.
Young, Charles Aldo TC N 5	Riverside, N. J.
Young, Julius Osborne, Jr. TC M 3	Winston-Salem, N. C.
Young, William Glenn, Jr. TC N 3	Washington, D. C.
Young, William Lowell TC N 1	Frederick, Md.
Yount, Paul Wesley, Jr. TC N 1	Charlotte, N. C.
Zega, Lester Walter TC N 3	Plainfield, N. J.
Zemer, Robert Field TC N 3	Highland Park, Mich.
Zengel, Edward Anthony TC N 5	Ridgefield, N. J.
Ziegler, Cleo Taylor TC M 5	Bigspring, Tenn.
Zimmerman, Jacob Shelly TC N 2	Marshall, N. C.
Zion, Robert William EC M 5	Philadelphia, Pa.
Zoeller, Robert Royce TC M 1	Milwaukee, Wisc.
Zumberge, James Herbert TC M 3	Minneapolis, Minn.

THE WOMAN'S COLLEGE

FRESHMAN CLASS

Abernethy, Martha Carolyn	Greensboro, N. C.
Addington, Sally Ann	Toccoa, Ga.
Airheart, Laura Frances	Durham, N. C.
Albertson, Anne Jane	Kane, Pa.
Allen, Mary Lucile	Durham, N. C.
Ambrose, Elizabeth Lee	Lebanon, Pa.
Ayles, Virginia	East Orange, N. J.
Babcock, Mary Prentiss	Cleveland, Ohio
Bagley, Salatha Louise	Tampa, Fla.
Bailey, Edith Pou	Raleigh, N. C.
Ball, Mary Katherine	Kinston, N. C.
Barber, Sara Ann	Rocky Mount, N. C.
Barnhart, Jean Wilson	Oxford, N. C.
Bartlett, Katherine Mignon	Beaumont, Texas
Barzilay, Mary J.	Lynbrook, N. Y.
Bates, Phyllis Elisabeth	Petersham, Mass.
Baxter, Mary Elizabeth	Orange, N. J.
Bayliss, Betty Delaney	Richmond, Va.
Baynard, Barbara Margaret	St. Petersburg, Fla.
Becker, Jayne Ellen	Kaufman, Texas
Benjamine, Eugenia Beverly	Miami, Fla.
Bernstein, Betty Mae	Burlington, N. C.
Best, Flora Louise	Milton, Pa.
Birmingham, Joan L.	Lewistown, Pa.
Bowmall, Suzanne Clare	Hollywood, Fla.
Brackney, Helen Jane	Toledo, Ohio
Briggs, Marcella	Durham, N. C.
Brimberry, Carolyn Virginia	Miami Beach, Fla.
Britt, Marie Baker	Lumberton, N. C.
Brooks, Eleanor Randolph	Dallas, Texas
Brooks, Elizabeth	Upper Montclair, N. J.
Brown, Margaret Ware	Asheville, N. C.
Brown, Mary Emily	Teaneck, N. J.
Brown, Sally Morrill	Amesbury, Mass.
Buchanan, Betsy	Durham, N. C.
Burkhalter, Virginia Grace	Jacksonville, Fla.
Bussell, Ida Blanche	Durham, N. C.
Campbell, Betty Garland	Lewisburg, W. Va.
Campbell, Gloria Helen	Nashua, N. H.
Campbell, Virginia Mae	West Englewood, N. J.
Camper, Rosalie Barnett	Haddonfield, N. J.
Cardinal, Ruth Maureen	Montgomery, Ala.
Carpenter, Madge Eliza	Durham, N. C.
Carter, Jacqueline Anne	Merion, Pa.
Carter, Virginia Rutherford	Durham, N. C.
Chapman, Betsy Jeanne	Morristown, N. J.
Clevenger, Shirley	Toledo, Ohio
Clute, Marjorie Ann	Upper Darby, Pa.
Cohen, Joyce Ruth	Philadelphia, Pa.
Corbett, Patricia Jane	Cincinnati, Ohio
Corbett, Phyllis Jean	Cincinnati, Ohio
Craig, Anne Elizabeth	Little Rock, Ark.
Craig, Eleanor	Jacksonville, Fla.
Crane, Charlotte	Detroit, Mich.
Crim, Patricia M.	Fort Lauderdale, Fla.
Crowell, Jeanne	Wilmette, Ill.
Crum, Katharine Howell	Durham, N. C.

Damtoft, Anne Elizabeth	Asheville, N. C.
Danielson, Emily Anne	Miami, Fla.
Davis, Mary Elizabeth	Warren, Ohio
Dawson, Joyce Ellen	Douglaston, N. Y.
Denny, Virginia Sarah	Evansville, Ind.
Deuell, Estelle Virginia	Newport News, Va.
Dick, Shirley May	Mount Vernon, N. Y.
Dickerson, Sara Ellen	Lakeland, Fla.
Dimmitt, Mary Frances	Swarthmore, Pa.
Dunn, Jean Elliott	Leaksville, N. C.
Dunphey, Jeanne Gabrielle	Merchantville, N. J.
Durand, Priscilla	Sea Girt, N. J.
Eaker, Marjorie Marie	Durham, N. C.
Elfreth, Beatrice	Southern Pines, N. C.
Emhardt, Margaret Ann	Alexandria, Va.
Erwin, Jean Crawford	Spartanburg, S. C.
Fagan, Virginia	Decatur, Ga.
Fariss, Charlotte Ann	Fort Benning, Ga.
Fensterwald, Alice Anne	Norfolk, Va.
Foley, Eleanor Page	Eastville, Va.
Foote, Marie Lovett	Mobile, Ala.
Fothergill, Margaret	Guayaquil, Ecuador
Fountain, Loring	Matawan, N. J.
Foutz, Patsy Ruth	Salisbury, N. C.
Fox, Ruthmarie	Harrisburg, Pa.
Frans, Margaret Anne	Hickory, N. C.
Frazier, Patricia Ann	Salisbury, N. C.
Freed, Mary Kathryn	Reading, Pa.
Freedley, Pauline Carol	Haddonfield, N. J.
French, Emma Elizabeth	Woodstock, Va.
Gentner, Dorothie Florence	Philadelphia, Pa.
Gibson, Marilyn Margaretta	Elizabethton, Tenn.
Gluck, Jessie Adelaide	Minerva, Ohio
Goode, Kathryn King	Charlotte, N. C.
Graham, Ann Elizabeth	Falls Church, Va.
Grubbs, Winifred L.	Pittsburgh, Pa.
Guest, Carol	West Hartford, Conn.
Gunn, Virginia Anne	Wilson, N. C.
Haley, Jean Astor	Durham, N. C.
Hall, Clarice Gertrude	Tampa, Fla.
Hall, Evelyn Cordelia	Cleveland, Ohio
Hamilton, Margaret Adelaide	Fort Myers, Fla.
Hand, Audrey Mae	Westfield, N. J.
Hardee, Nell Laurane	Durham, N. C.
Harkey, Doris	Charlotte, N. C.
Harmon, Jeanne Leona	Vienna, Va.
Harrell, Elizabeth Ann	Birmingham, Mich.
Harrell, Sarah Norfleet	Wilson, N. C.
Harris, Bennie	Lowell, N. C.
Harris, Martha Jane	Newport News, Va.
Hartman, Virginia L.	Upper Montclair, N. J.
Harwell, Helen Caldwell	Tampa, Fla.
Hathaway, Grace Avery	Upper Montclair, N. J.
Hedges, Allie W.	Savannah, Ga.
Heilman, Teresa Marie	Rockledge, Fla.
Heller, Gloria Jeanne	Havana, Cuba
Helmbold, Edith Edwards	Washington, D. C.
Henninger, Beverly Ann	Fairfield, Ohio
Hermance, Barbara Virginia	Nashua, N. H.
Heyman, Jane Claire	Richmond, Va.

Hill, H. Jane	Bethlehem, Pa.
Hobgood, Ruth Eileen	Durham, N. C.
Holbert, Clara Dunning	Warwick, N. Y.
Hollings, Doreen	Rahway, N. J.
Hollmeyer, Ruth Katrine	Mountain Lakes, N. J.
Holmes, Sarah Elizabeth	Fayetteville, N. C.
Holt, Betsy Clifford	Greensboro, N. C.
Hood, Mary Rawlings	Richmond, Va.
Hooper, Carolyn Branson	Durham, N. C.
Howerton, Dorothy Lansdell	Durham, N. C.
Hoyle, Sarah Miriam	Durham, N. C.
Huckle, Sara Wycliffe	Rock Hill, S. C.
Hudson, Frances	Anderson, Ind.
Hulbert, Virginia Witherspoon	Chevy Chase, Md.
Huntsman, Carmen	Washington, D. C.
Ipock, Anne Charlton	Elkin, N. C.
James, Mary Jordan	Southern Pines, N. C.
Johnson, Carolyn Jean	Rocky Mount, N. C.
Johnson, Lois Rebecca	Kansas City, Mo.
Jones, Ava Jean	Copperhill, Tenn.
Jones, Margaret Louise	Rydal, Pa.
Kafka, Bluma May	Richmond, Va.
Kalquist, Majel Louise	Westfield, N. J.
Kauble, Virginia Fay	St. Augustine, Fla.
Kelly, Alice Miriam	Troy, Ala.
Kern, Catharine Deane	Washington, D. C.
Kidder, Eleanor Frances	Newton Center, Mass.
Kingsland, Helen Irene	Burlington, N. C.
Knoll, Luella Dorothy	Brooklyn, N. Y.
Koontz, Carolyn Ann	Washington, D. C.
Kupp, Elaine Beatrice	Depew, N. Y.
Larkin, Ann Crawford	Burlington, N. C.
Laws, Ruby Anne	Hillsboro, N. C.
Lee, Clara Elizabeth	Middleburg, N. C.
Lehman, Margaret Rae	Toledo, Ohio
Lentz, Jeannette Harris	Albemarle, N. C.
Lewis, Mary Clare	Fort Myer, Va.
Linkins, Nancy Winifred	Washington, D. C.
Linthicum, Elizabeth Balerma	Durham, N. C.
Loftis, Marion W.	Durham, N. C.
Long, Rosalie Elma	Columbia, S. C.
Lyster, Shirley Claire	Lansdowne, Pa.
McCarthy, Eunice M.	Watertown, Mass.
McCarthy, Mary Ellen	Washington, D. C.
McClure, Merlyn Pauline	Cincinnati, Ohio
McCoy, Edith Jeanette	Hickory, N. C.
McCreery, Nanette Jeanne	Pittsburgh, Pa.
McDermott, Rose Marie	Durham, N. C.
McDonald, Jane Mellon	Charlotte, N. C.
McElroy, Antoinette Paulin	Latrobe, Pa.
McKay, Lynn	White Plains, N. Y.
MacMurtrie, Nancy	Philadelphia, Pa.
McSwain, Rachel Ann	Evanston, Ill.
Majer, Mildred B.	Crestwood, N. Y.
Malley, Martha Ann	Wildwood, N. J.
Mansfield, Lillian Alice	Durham, N. C.
Marshall, Patricia	Port Chester, N. Y.
Matthaus, Jane Annette	Miami, Fla.
Meighen, Margaret Susan	Tampa, Fla.
Merrill, Mary Constance	Palatka, Fla.

Mertz, Beatrice	Elkins Park, Pa.
Messenkopf, Eleanor Ada	Erie, Pa.
Messner, Frances Evelyn	Great Neck, N. Y.
Mickelsen, Helen Jean	Chicago, Ill.
Morton, Nancy Ann	Tryon, N. C.
Murchison, Betty Powell	Rocky Mount, N. C.
Neely, Beverly Joy	Atlanta, Ga.
Neuhoff, Ruth Marguerite	St. Louis, Mo.
Noell, Jane Carolyn	Durham, N. C.
Onley, Joan Thomas	Arlington, Va.
Ormond, Elizabeth	Durham, N. C.
Outler, Helen Gertrude	Washington, D. C.
Paradies, Janice Maree	Atlanta, Ga.
Parsons, Margaret Elizabeth	Damariscotta, Maine
Paty, Matilda Jane	Elizabethton, Tenn.
Pearse, Mary Barbara	Raleigh, N. C.
Pepper, Katherine Margaret	Washington, D. C.
Peterson, Margarette Frances	Rutherford, Tenn.
Pickard, Annie Sue	Durham, N. C.
Pickering, Patricia Lee	Princeton, Ky.
Pierson, Gwendolyn	Lancaster, Pa.
Pierson, Marion Earl	Atlanta, Ga.
Postel, Bernice Anita	Mascoutah, Ill.
Preston, Delia Joyce	Winston-Salem, N. C.
Recio, Nora Elisa	Guayama, Puerto Rico
Rendleman, Ann Marie	Salisbury, N. C.
Renn, Lydia Steele	Durham, N. C.
Rice, Dorothy Helen	Durham, N. C.
Richards, Ellen Louise	Philadelphia, Pa.
Ridout, Betty Flora	Pelham Manor, N. Y.
Rimer, Allienne Mae	Charlotte, N. C.
Rita, Gloria	Roselle Park, N. J.
Ritch, Lois Wilson	Charlotte, N. C.
Rockey, Jean	Westfield, N. J.
Rogers, Doris Marian	Petersburg, Va.
Rogers, Mary Faith	Bennettsville, S. C.
Rogers, Virginia Joyce	Charlotte, N .C.
Rowland, Dorothy June	Wilkinsburg, Pa.
Russell, Elsie Jean	Glencoe, Ill.
Sachs, Barbara	New York, N. Y.
Sally, Martha Ann	Durham, N. C.
Saum, Mary Elton	Alexandria, Va.
Sawyer, Eleanor June	Miami, Fla.
Schimel, Jeanne Merrill	Jersey City, N. J.
Schmidt, Evelyn D.	North Plainfield, N. J.
Schock, Barbara Joan	Arlington, Va.
Schwarz, Laura Anne	Webster Groves, Mo.
Sears, Ann Isabel	Birmingham, Mich.
Seeley, Mary Elisabeth	Durham, N. C.
Seifert, Barbara Lucille	New York, N. Y.
Shankle, Dorothy Lea	Reidsville, N. C.
Silliman, Patricia	Lexington, N. C.
Smith, Elizabeth Coppridge	Charlotte, N. C.
Smith, Estelle	Philadelphia, Pa.
Smith, Marjory	Alexandria, Va.
Smith, Mary Louise	Winston-Salem, N. C.
Smoot, Ann Wilson	Seaford, Del.
Spicer, Leah Virginia	St. Albans, W. Va.
Stapleford, Anne Wilson	Durham, N. C.
Starner, Aleen Marie	Coral Gables, Fla.

Stebbins, Mary Winifred	Deerfield, Mass.
Stewart, Mary Nancy	Lancaster, S. C.
Strand, Dolores Eileen	Hadlyme, Conn.
Strange, Jean Marie	Richmond, Va.
Stutts, Mary Elizabeth	Erwin, N. C.
Taylor, Margaret Green	Roanoke Rapids, N. C.
Taylor, Mary Jo	Shaker Heights, Ohio
Thompson, Charlotte Evelyn	Charlotte, N. C.
Threadgill, Mary Catherine	Rockingham, N. C.
Throne, Margaret Elizabeth	York, Pa.
Tierney, Patricia Evelyn	Pelham Manor, N. Y.
Torbett, Adah Elizabeth	Huntington, W. Va.
Trask, Elizabeth Morton	Upper Darby, Pa.
Traylor, Joan Louise	Springfield, Mo.
Troxell, Betty Jane	Canton, Ohio
Upshur, Florence Holland	Eastville, Va.
VanTrine, Marian Thwing	Durham, N. C.
Wagner, Charlotte Arlene	York, Pa.
Walters, Mary Elizabeth	Miami Beach, Fla.
Ward, Elma Quma	Binghamton, N. Y.
Warren, Janet Bancroft	Holden, Mass.
Watson, Becky	Lakeland, Fla.
Weaver, Betty Lou	Durham, N. C.
Weidler, Martha Ann	Greensboro, N. C.
Weiland, Patricia Ruth	Coral Gables, Fla.
Weinstein, Nancy Jean	Durham, N. C.
Weintraub, Ronda Joyce	New York, N. Y.
Wheaton, Charlotte Louise	Washington, D. C.
White, Fanny Wanda	Durham, N. C.
White, Marjorie Ann	Brooklyn, N. Y.
Whitely, Hulda Ruth	High Point, N. C.
Whitlock, Shirley	Warren, Ohio
Whitney, Marjorie	Washington, D. C.
Widenhouse, Frances Marie	Kannapolis, N. C.
Wiland, Elaine Margaret	Lewistown, Pa.
Wiles, Myrtle Edith	Burlington, N. C.
Wilkinson, Gladys Virginia	Roanoke, Va.
Williams, Betty Lou	Acme, N. C.
Williams, Jean Elizabeth	Rocky Mount, N. C.
Wineland, Mary Alice	Dayton, Ohio
Winter, Mary Elizabeth	Pottsville, Pa.
Wise, Mary Margaret	Dunellen, N. J.
Wiseman, Alice Margaret	Avondale, N. C.
Womble, Aetna Katherine	Durham, N. C.
Worthy, Mary Ann	Shaker Heights, Ohio
Yates, Maxine Louise	Pineville, N. C.
Yokeley, Martha Jean	Winston-Salem, N. C.
Zehmer, Margaret Tyler	Birmingham, Ala.

SOPHOMORE CLASS

Abelman, Betty	Atlanta, Ga.
Akers, Rowena Betty	Frederick, Md.
Alexander, Josephine Sophie	Durham, N. C.
Ammerman, Jane	Orange, N. J.
Anderson, Emily Katherine	Detroit, Mich.
Anderson, Jo Ann Marie	Grosse Pointe, Mich.
Andrews, Ann Elizabeth	Atlanta, Ga.
Barnwell, Gwin	Gastonia, N. C.
Bashor, Marie Elizabeth	Goulds, Fla.
Beattie, Mary Elizabeth	Winchester, Va.

Beggs, Betty Ann	Baltimore, Md.
Bell, Janice Eileen	Westfield, N. J.
Bennethum, Marjorie Gurnett	Aurora, Ill.
Berkson, Carmela	New York, N. Y.
Bledsoe, Betty Jane	Greensboro, N. C.
Blennerhassett, Doris Elizabeth	San Marino, Calif.
Boehme, Mary Harding	Louisville, Ky.
Bottoms, Dreama Eileen	Pittsburgh, Pa.
Bradley, Mary Katherine	Purcellville, Va.
Brahany, Gloria Anne	Richmond, Va.
Brown, Nancy Elizabeth	Hillsboro, N. C.
Brown, Virginia Lee	Washington, D. C.
Bryant, Nora Crowell	Durham, N. C.
Buck, Muriel Kenly	Brookhaven, Miss.
Burdett, Joneta	Atlanta, Ga.
Burgard, Annette Crawford	Columbus, Ga.
Busschaert, Elaine Gabrielle	New York, N. Y.
Cameron, Marjorie Louise	Meriden, Conn.
Cassady, Mary Ann	Park Ridge, Ill.
Cheek, Sarah Kathryn	Durham, N. C.
Chelimer, Edith Avery	New Rochelle, N. Y.
Church, Willa Lee	Youngstown, Ohio
Clarke, Dorothy Albertine	Washington, N. C.
Clarkson, Sarah	Charlotte, N. C.
Colston, Margaret Virginia	Shaker Heights, Ohio
Corwin, Patricia Ann	Harrisburg, Pa.
Council, Grace McNinch	Charlotte, N. C.
Covington, Sara Catherine	Gastonia, N. C.
Cox, Dorothy Lucile	Miami, Fla.
Dabbs, Margaret Louise	Mayesville, S. C.
Daniel, Homer Delle	Anderson, S. C.
Davis, Dorothy Marie	Durham, N. C.
Dean, Joyce Marilyn	Indianapolis, Ind.
DeLong, Lois Ellen	Jamestown, N. Y.
DeMarzy, Verna	Euclid, Ohio
Derrick, Irene Ritter	Fort Bliss, Texas
DeWitt, Margaret Elizabeth	Grand Haven, Mich.
Doctor, Anna Lou	High Point, N. C.
Donovan, Caroline Catherine	Milford, Pa.
Dopke, Virginia H.	Milwaukee, Wis.
Duffy, Ruth Anne	High Point, N. C.
Edwards, Barbara Jean	Goldsboro, N. C.
Eichwald, Elsie Courtright	Durham, N. C.
Elmore, Katharine Johnstone	Rocky Mount, N. C.
Ethridge, Mary Snow	Prospect, Ky.
Fetherston, Dorothy Jean	Baldwin, N. Y.
Fike, Ruth Marie	Ahoskie, N. C.
Flaherty, Jean Weaver	Swarthmore, Pa.
Fleck, Elizabeth Jane	Mt. Holly Springs, Pa.
Fletemeyer, Gloria Lou	Detroit, Mich.
Fogle, Marjorie Elberta	Naranja, Fla.
Foster, Helen Beatrice	Framingham Centre, Mass.
Fountain, Jean	Matawan, N. J.
Fountain, Joan	Matawan, N. J.
Franklin, Amy Josephine	Bryson City, N. C.
Fulton, Margaret Alice	Raleigh, N. C.
Fultz, Beverly Ann	Hagerstown, Md.
Gantt, Betty Sue	Norfolk, Va.
Garrison, Barbara Jane	South Orange, N. J.
Gaudynski, Joan Louise	Milwaukee, Wis.

Gobbel, Margaret McElrath	Suffolk, Va.
Goodman, Katherine Louise	Wilmington, N. C.
Goree, Charlotte Virginia	Chattanooga, Tenn.
Gosford, Barbara Olyve	Philadelphia, Pa.
Gott, Mary Jane	Chevy Chase, Md.
Green, Harriet	Abingdon, Va.
Grimes, Gloria Lee	Charlotte, N. C.
Griswold, Marie Frances	Miami, Fla.
Groh, Phyllis Marie	Hagerstown, Md.
Gross, Beatrix Cobb	Durham, N. C.
Hanlon, Lois Jeanne	Odessa, N. Y.
Hanson, Patricia Ann	Hopewell, Va.
Harper, Jean Elizabeth	Miami, Fla.
Hartz, Hazel Rodgers	Brooklyn, N. Y.
Helmick, Harriet Wright	Fairmont, W. Va
Heygel, Alice Mildred	Asheville, N. C.
Heykoop, Hendrika Georgia	Enka, N. C.
Hill, Althea Frances	Willimantic, Conn.
Hodges, Betsy Blakeney	Bronxville, N. Y.
Hollingsworth, Lois Henry	Clayton, N. C.
Holmes, Carol Ruth	Ridgefield, N. J.
Howes, May Zoë	Wilmington, N. C.
Hudgins, Eleanor Ward	Newport News, Va.
Hunter, Ann Shirley	Philadelphia, Pa.
Jewell, Betty Bell	Detroit, Mich.
Johnson, Marion	Winchester, Va.
Jones, Carolyn Clyde	Palatka, Fla.
Jordan, Sara Alice	Raleigh, N. C.
Kelly, Patricia Ann	Durham, N. C.
Klotz, Peggy Jean	Staunton, Va.
Lane, Juanita D.	Aberdeen, N. C.
Lasley, Betty Lee	Walkertown, N. C.
Launi, Nettie Margaret	Arlington, Va.
LeVan, Esther Bourne	Boonsboro, Md.
Lewis, Dorothy Brooks	Grand Rapids, Mich.
Lockhart, Ann	Wadesboro, N. C.
Lovelace, Mary Ellen	Washington, D. C.
Lowrie, Margaret	Bowling Green, Ohio
Lundsten, Jean Alice	Elcelsior, Minn.
McCarty, Jerree Ashton	Glendive, Mont.
McCaskill, Jean	Miami, Fla.
McCrummen, Nancy Ione	Birmingham, Ala.
McGowan, Martha Frances	Highland, Ill.
Main, Barbara	Ormond Beach, Fla.
Manahan, Mary Carolyn	Camden, Del.
Mapes, Lois Marion	White Plains, N. Y.
Marks, Elizabeth Cross	Clarksville, Va.
Maxwell, Gladys Pauline	Purlear, N. C.
Mayers, Catherine Ann	Shaker Heights, Ohio
Meriwether, Jane	Tryon, N. C.
Merris, Dora Kendig	Towanda, Pa.
Metzner, Betty Jane	Syracuse, N. Y.
Michalski, Alina Wanda	Newark, N. J.
Mill, Roberta Anne	Birmingham, Mich.
Minnich, Gilda Hazel	York, Pa.
Mirick, Marjorie	Shelburne Falls, Mass.
Mixson, Bettye Marie	Beaumont, Texas
Moffett, Margaret Paul	Camden, N. J.
Moore, Birdie Jean	West Palm Beach, Fla.
Morgan, Marie	Bailey, N. C.

Mulligan, Mary Lou	Lakewood, Ohio
Needham, Patricia Alice	Jackson Heights, N. Y.
Newbold, Betty	Newport News, Va.
Newman, Camille L.	Charlotte, N. C.
Nicholl, Elinore	Philadelphia, Pa.
Oakes, Lucie Mae	Malden, W. Va.
O'Malley, Gertrude Michael	Rahway, N. J.
O'Neill, Norine Elizabeth	Havana, Cuba
Otto, Margaret	Philadelphia, Pa.
Pace, Emma Jean	Zebulon, N. C.
Parker, Charlene Louise	Lakewood, Ohio
Parsons, Frances Virginia	Altoona, Pa.
Peace, Virginia Olive	Plainville, Conn.
Perkins, Barbara Louise	Rutland, Vt.
Perkins, Janet Ella	Rutland, Vt.
Pettit, Gwendolyn Marie	Ocean City, N. J.
Poe, Lucy Naldi	Durham, N. C.
Prather, Elizabeth Anne	Hagerstown, Md.
Protzmann, Beverly Ann	New York, N. Y.
Quinn, Jacqueline	York, Pa.
Reap, Margaret Anne	Albemarle, N. C.
Redding, Margaret Elizabeth	Tampa, Fla.
Reed, Earlyn Jo	Lake Worth, Fla.
Rhodes, Frances Pollard	Washington, N. C.
Rial, Rhoda Valerie	Buffalo, N. Y.
Ritchey, Velma Jayne	Bethlehem, Pa.
Roberts, Rachel Evans	Mount Vernon, N. Y.
Robinson, Agnes Theresa	Rutherford, N. J.
Rochlin, Anne Niuta	Statesville, N. C.
Romaine, Ruth Marie	East Cleveland, Ohio
Rose, Elaine Irene	New York, N. Y.
Ruppenthal, Ethel Althea	Durham, N. C.
Ruppenthal, Lois Dorothea	Durham, N. C.
Saperstein, Passie	New York, N. Y.
Saunders, Gladys Mae	Durham, N. C.
Schenck, Helene Jocelyn	Pittsburgh, Pa.
Scott, Anna Ruth	Kannapolis, N. C.
Shaw, Billie Claudine	Charlotte, N. C.
Sherertz, Nora Olivia	Durham, N .C.
Sherrill, Jane	Charlotte, N. C.
Shumaker, Audrey Lenore	Lewistown, Pa.
Smith, Barbara	Fall River, Mass.
Smith, Edna Shirley	Asheville, N. C.
Smith, Ethelyn Marie	Daytona Beach, Fla.
Smith, Judith Brevoort	Greystone Park, N. J.
Smith, Margaret Elisabeth	Washington, Ill.
Smith, Margaret Love	Virginia Beach, Va.
Smith, Rosalind Gower	Durham, N. C.
Smith, Wilma V.	Durham, N. C.
Smither, Alice Haizlip	Winston-Salem, N. C.
Smoot, Lucile Cobb	Tarboro, N. C.
Sour, Nancy Aborn	Shreveport, La.
Stanton, Tommye	High Point, N. C.
Stapf, Edith Ellen	Cristobal, Canal Zone
Stark, Carol Jane	Erie, Pa.
Stark, Jeanne McGilvray	Bethlehem, Pa.
Stathers, Mary Jeannette	Clarksburg, W. Va.
Stewart, Virginia Yvonne	Charlotte, N. C.
Stone, Mary Catherine	Dillon, S. C.
Stride, Elaine	Biddeford, Maine

Suiter, Virginia Ghio	Weldon, N. C.
Taylor, Betty Ann	Tampa, Fla.
Tecklin, Helen Barbara	Brooklyn, N. Y.
Thackston, Kathryn Inez	Durham, N. C.
Thigpen, Dorathy Dotger	Charlotte, N. C.
Thomas, Reba Carolyn	Durham, N. C.
Thompson, Cornelia Hoke	New Bern, N. C.
Thornton, Marilyn Edith	Oakfield, N. Y.
Todd, Doris Louise	Alexandria, Va.
Tower, Jean Frances	Daytona Beach, Fla.
Trent, Loa Jean	Winston-Salem, N. C.
Turner, Dorothy	Rocky Mount, N. C.
Turner, Lucy Belle	Durham, N. C.
Upshaw, Ethelyn Louise	Savannah, Ga.
Upshaw, Nancy Miller	Raleigh, N. C.
Vandiver, Evelyn Florence	Durham, N. C.
Vereen, Jessie Louise	Miami, Fla.
vonNardroff, Elfrida	Durham, N. C.
Ward, Patricia Marie	Lakeland, Fla.
Watson, Eleanor Jane	Rochester, Minn.
Weiland, Johanna Jean	Coral Gables, Fla.
Wenger, Nancy Jane	Baltimore, Md.
Whitcomb, Martha Jane	Camp Hill, Pa.
Wilson, Mary Allen	Birmingham, Ala.
Wilson, Mary Locklin	Mobile, Ala.
Wood, Anne	Braintree Highlands, Mass.
Wooten, Terry Clair	Shellman, Ga.
Worth, Elizabeth Milner	Durham, N. C.
Wouters, Femina Wilhelmina	Atlanta, Ga.
Wright, Frances M.	Birmingham, Ala.
Young, Cora Lynn	Raleigh, N. C.
Young, Nancy Jane	Lakewood, Ohio
Yount, Marea Jordan	Graham, N. C.

JUNIOR CLASS

Allard, Margaret Louise	Steubenville, Ohio
Armistead, Gloria May	Roanoke, Va.
Axton, Barbara Joan	Fort Sam Houston, Texas
Bacon, Margaret Elizabeth	Sandusky, Ohio
Bamber, Kathleen Rahily	Petersburg, Va.
Barber, Mary Aileen	Kernersville, N. C.
Barber, Mary Nancy	Asheville, N. C.
Barkwell, Jean Eleanor	Indiana, Pa.
Barrow, Catherine	St. Joseph, Mo.
Barthen, Jacqueline	River Edge, N. J.
Bason, Jane	Portsmouth, Va.
Baumgartner, Nancy Jean	Winona, Minn.
Beaver, Josephine	Albemarle, N. C.
Beckert, Shirley Louise	West Orange, N. J.
Bell, Thalia Holland	Cleveland, Ohio
Bernhardt, Evelyn Anne	Washington, D. C.
Blue, Lucile Edgerton	Murfreesboro, Tenn.
Boddie, Harriet Susan	Durham, N. C.
Bogert, Esther Eoline	Southboro, Mass.
Boren, Betty Lee	Dayton, Ohio
Brett, Elizabeth Ann	Santa Barbara, Calif.
Brown, Margaret Daves	Pittsburgh, Pa.
Burroughs, Anne Stapley	Metuchen, N. J.
Cardo, Augusto Patricia	Charlotte, N. C.
Carlton, Margie	Tampa, Fla.

Cauldwell, Eleanor Thackara	Fitchburg, Mass.
Christodoulou, Marie	Welch, W. Va.
Clark, Mary Ann	Washington, D. C.
Cline, Alice Jeannette	Norfolk, Va.
Coble, Euginia Elizabeth	Durham, N. C.
Coe, Jean Blair	Arlington, Va.
Colbert, Jeanne	Washington, D. C.
Collins, Genevieve Cecilia	Kingsport, Tenn.
Compton, Caroline King	Gallion, Ala.
Cone, Patricia	East Hampton, Conn.
Crigger, Beatrice	Durham, N. C.
Currie, Virginia Dare	Whiteville, N. C.
Dameron, Sarah Elizabeth	Durham, N. C.
Davie, Shirley Christina	Norfolk, Va.
Davis, Ann Minerva	Durham, N. C.
Davis, Elizabeth Susan	Richmond, Va.
Decker, Shirley Margaret	New York, N. Y.
DeVan, Cornelia Imogene	Mobile, Ala.
Dill, Doris Marguerite	Kirkwood, Mo.
Donegan, Mildred Alice	Largo, Fla.
Donovan, Nancy Meacham	Arlington, Va.
Dravo, Marguerite deVere	Louisville, Ky.
Duncan, Kathleen Stewart	Durham, N. C.
Durant, Harriet March	Mobile, Ala.
Eldredge, Geneva Edwina	South Orleans, Mass.
Enslin, Joyce Elizabeth	New York, N. Y.
Evans, Dorothy Elaine	Washington, Pa.
Flexner, Anne	Louisville, Ky.
Fountain, Vernon Hope	Tarboro, N. C.
Freeman, Carol	Sunbury, Pa.
Gauchat, Joan Marie	Canton, Ohio
Gennett, Julia	Asheville, N. C.
Geyer, Mary Adeline	South Bend, Ind.
Gibson, Lillian Daphine	Durham, N. C.
Gilliam, Betty Jean	Washington, D. C.
Goodson, Elsie	Valdosta, Ga.
Goodwin, Helen Dyer	Pittsfield, Mass.
Gordon, Jesse Hargrave	Lexington, N. C.
Grebe, Camilla Anne	Hollis, N. Y.
Green, Betty Josephine	Downey, Ill.
Greenwell, Merthel	Dallas, Texas
Groome, Dottie Dare	Atlanta, Ga.
Haering, Helen Elizabeth	Petersburg, Va.
Harbison, Kathryn Holt	Asheville, N. C.
Hawkins, Virginia Cecil	Bloomfield, N. J.
Heim, Peggy	Sunbury, Pa.
Hickok, Sylvia Hoover	Durham, N. C.
Hightower, Dorothy	Wadesboro, N. C.
Hilley, Jeanne Tucker	Wilson, N. C.
Hillman, Anne Warlick	Rocky Mount, N. C.
Hines, Carolyn Focer	Drexel Hill, Pa.
Horsley, Catherine Jean	Miami, Fla.
Hostetter, Margaret Jane	Matawan, N. J.
Howard, Emily Jane	Northboro, Mass.
Howe, Betty	Cordova, Ala.
Hubbell, Rosemary Lydia	Coral Gables, Fla.
Hyland, Dorothy Lewis	San Antonio, Texas
Hylton, Harriet	Welch, W. Va.
Jackson, Betty Lou	Framingham, Mass.
Jenkins, Margaret	Salisbury, N. C.

Johnson, Natalie Kristina	Miami, Fla.
Johnson, Shirley Mae	Lakewood, N. J.
Jones, Marjorie May	Milwaukee, Wis.
Jones, Mary Elizabeth	Webster Groves, Mo.
Kane, June Lillian	Jamaica, N. Y.
Kansteiner, Helen Ruth	Basking Ridge, N. J.
Kearns, Susan	Welch, W. Va.
Kindler, Helen Yvonne	Jessups, Md.
King, Carolyn	Marion, Ohio
Knowles, Marjorie Irene	Fairmont, W. Va.
Laws, Nancy Lee	Chevy Chase, Md.
Lawson, Syble Leone	Durham, N. C.
Lee, Maren Theodora	West Hempstead, N. Y.
Levy, Merle Jane	West Hartford, Conn.
Lineberger, Anne S.	Raleigh, N. C.
Long, Agnes Christie	Durham, N. C.
Lorentz, Henrietta Davenport	Clay, W. Va.
Luessenhop, Barbara Ann	Westfield, N. J.
McArthur, Jean	Miami, Fla.
McCall, June	Charleston, S. C.
McMahan, Betty Anne	Mocksville, N. C.
Maddox, Mildred Mitchell	Thomasville, N. C.
Magill, Sara Kennedy	Chester, S. C.
Makovsky, Alice Anne	Boonton, N. J.
Mathews, Emily M.	Jacksonville, Fla.
Matthews, Helen Elizabeth	Durham, N. C.
Mayhew, Barbarajane	Coral Gables, Fla.
Meadows, Mary Martha	Norfolk, Va.
Meister, Dagmar Amy	New York, N. Y.
Merritt, Mary Louise	Mount Airy, N. C.
Mickelsen, Patricia Anne	Chicago, Ill.
Moore, Tacy Morgan	Daytona Beach, Fla.
Moore, Virginia Lee	Baltimore, Md.
Mordecai, Ellen	Raleigh, N. C.
Morgan, Mary	New York, N. Y.
Morrison, Harriet Marie	Birmingham, Ala.
Morton, Marion Boyd	Oxford, N. C.
Mulligan, Helene Grace	Lakewood, Ohio
Murph, Guynell	White Stone, S. C.
Musselman, Nina Mae	Bethlehem, Pa.
Nicholson, Martha	Statesville, N. C.
Obermaier, Margaret Elizabeth	York, Pa.
O'Dell, Cleoris	Hominy Falls, W. Va.
Olive, Betsy Ann	Durham, N. C.
Patton, Marjorie Rose	Jonesboro, Ark.
Paty, Jo Anne	Elizabethton, Tenn.
Petre, Ursula Viola	Carlisle, Pa.
Phipps, Carol King	Clintwood, Va.
Pierce, Margaret Ellen	Hallowell, Maine
Pine, Elizabeth Carr	Washington, D. C.
Poole, Madge	Troy, N. C.
Poole, Nell	Troy, N. C.
Powell, Sophie Maude	Elon College, N. C.
Ramsburgh, Julia Maynard	Frederick, Md.
Ramsey, Barbara	Washington, D. C.
Randolph, Frances Madeline	Towson, Md.
Rankin, Betsy Brandon	Concord, N. C.
Read, Cynthia Lowe	Miami Beach, Fla.
Rhodes, Mary Elizabeth	Lincolnton, N. C.
Richards, Memory Fay	Columbus, Ga.

Richardson, Frances Claire	West Hartford, Conn.
Rikert, Camilla	Mt. Hermon, Mass.
Rile, Harriet Harvey	Philadelphia, Pa.
Roach, Eleanor Lee	Salisbury, Md.
Ronk, Alice Edwina	Suffern, N. Y.
Ryon, Mary Elizabeth	Washington, D. C.
Sarré, Eugenie Cecile	Washington, D. C.
Schlueter, Alice Hazel	Orange, N. J.
Scholz, Elizabeth Anne	Birmingham, Ala.
Schroder, Margaret Pauline	Durham, N. C.
Schulken, Mildred Deppe	Durham, N. C.
Scuran, Carol Ovedia	Belle Glade, Fla.
Shapleigh, Virginia	Wilmington, Del.
Shetrone, Mary Louise	Shillington, Pa.
Shore, Ruth Long	Winston-Salem, N. C.
Siegel, Leona Beatrice	Maplewood, N. J.
Soar, Marjorie Elizabeth	Raleigh, N. C.
Sprague, Marian Alice	Salamanca, N. Y.
Starnes, Elizabeth Colclough	Cherryville, N. C.
Stoddard, Donna Elizabeth	North Newington, Conn.
Strohm, Jane Olivia	Indianapolis, Ind.
Succop, Oneita Ann	Freehold, N. J.
Sugg, Dorothy Elizabeth	Durham, N. C.
Super, Mary Virginia	Petersburg, Va.
Swisher, Betty Lee	Levels, W. Va.
Taeusch, Barbara Jean	Washington, D. C.
Taylor, Marguerite	Morristown, Tenn.
Thomas, Mary Lucile	Wilson, N. C.
Thompson, Celia Mae	Durham, N. C.
Tilden, Mary Weatherly	Jamestown, N. C.
Totman, Virginia Louise	Linthicum Heights, Md.
Vail, Evelyn Gray	Pikeville, N. C.
Wade, Helen Sylvia	Fort Lauderdale, Fla.
Walker, Ann	Hyattsville, Md.
Walker, Anna Jean	Durham, N. C.
Walker, Doreen Virginia	Mt. Kisco, N. Y.
Ware, Norma	Macon, Ga.
Watlington, Laura Lynn	Morganton, N. C.
Wetmore, Marion Dare	Durham, N. C.
Williams, Sharlot Jane	Kirkwood, Mo.
Wilson, Betty Ann	Hampton, Va.
Wilson, Elizabeth Fussell	Rose Hill, N. C.
Wimberly, Eugenia Owen	Birmingham, Ala.
Wood, Lois Edna	Salisbury, Md.
Woodall, Erin Tuttle	Warrenton, N. C.
Woodard, Edna Gay	Wilson, N. C.
Yeager, Cornelia	Albemarle, N. C.
Young, Carolyn Katherine	Richmond, Va.
Zollicoffer, Julia Bryan	Henderson, N. C.

SENIOR CLASS

Adams, Marybelle	Skillman, N. J.
Aeugle, Margaretta Elizabeth	Philadelphia, Pa.
Alden, Jeannette Lorraine	Amston, Conn.
Andrews, Phyllis Jane	Tampa, Fla.
Atkinson, Anna Mae	Wadesboro, N. C.
Bailey, Loui Lloyd	Richmond, Va.
Bankhardt, Mary Katherine	Fort Thomas, Ky.
Barnhardt, Helen	Concord, N. C.
Barnwell, Ruth Marshall	Florence, S. C.

Barry, Ann Lenore	Durham, N. C.
Beattie, Catherine Taylor	Winchester, Va.
Bendall, Jane Weaver	Valley Stream, N. Y.
Bennett, Jean Arline	Brevard, N. C.
Bentley, Nancy Joyce	Ravenna, Ohio
Berry, Martha Mae	Birmingham, Ala.
Blackburn, Ione	Miami, Fla.
Blomberg. Mildred Jean	Durham, N. C.
Bloom, Dolores	Miami Beach, Fla.
Broadhurst, Nancy Lee	Brooklyn, N. Y.
Brooks, Helen	Bryson City, N. C.
Brown, Eva Jane	Asheville, N. C.
Brown, Mary Anne	Washington, D. C.
Buford, Ada Jayne	Charleston, W. Va.
Bulloch, Martha Kyle	Roanoke, Va.
Bunker, Dorothy	Mt. Airy, N. C.
Bunting, Helen Lindsay	Oxford, Pa.
Bunting, Sarah Ansley	Washington, D. C.
Campbell, Constance Gertrude	Havana, Cuba
Chorpening, Dorothy Louise	Arlington, Va.
Cline, Evelyn Frances	Durham, N. C.
Coggin, Mary Elizabeth	Raleigh, N. C.
Conor, Dolores	Ridgefield, N. J.
Cooke, Barbara Rice	Washington, D. C.
Cox, Bessie Alston	Columbus, Miss.
Crone, Elsie Mae	Detroit, Mich.
Cross, Alice Eloise	Wynnewood, Pa.
Cross, Enola Newbold	Tampa, Fla.
Crouse, Willena	Durham, N. C.
Davenport, Sybil Harris	Durham, N. C.
Davis, Annette Koym	Washington, D. C.
Dickson, Shirley	Mt. Ranier, Md.
Dillon, Catherine	Lewisburg, W. Va.
Dubs, Anne Louise	Durham, N. C.
Dykes, Beverly	Bound Brook, N. J.
Dysart, Juliana	Elko, Nev.
Elmore, Margaret Seiga	Painter, Va.
Etzel, Vivien	Little Neck, N. Y.
Fisher, Margaret Ethel	Youngstown, Ohio
Ford, Grace Pullen	Milford, Conn.
Fouch, Ann	Orrville, Ohio
Fountain, Annie Ruth	Tarboro, N. C.
Fouraker, Betty June	Raleigh, N. C.
Freels, Mary Nelson	Miami, Fla.
Frizzelle, Jennie Brown	Durham, N. C.
Froass, Mary Constance	Oneida, N. Y.
Frost, Harriet Norma	Newport News, Va.
Garver, Jane Carolyn	Harrisburg, Pa.
Gaskins, Mary Elizabeth	New Bern, N. C.
Gilliam, Kathryn Margaret	Washington, D. C.
Goode, Georgellen	Statesville, N. C.
Gordon, Mary Lindsay	Lexington, N. C.
Grant, Joy	North East, Md.
Gwaltney, Mary Carolyn	Osceola, Ark.
Hall, Mary Watters	Oxford, N. C.
Hance, Audrey Beryl	Pittsburgh, Pa.
Hedrick, Julia Sneed	Washington, D. C.
Helmich, Anne Shirley	Birmingham, Ala.
Hinely, Annette	Savannah, Ga.
Holcombe, Elizabeth	Charleston, W. Va.

Huemer, Frances Evelyn	Newark, N. J.
Huntley, Constance	Durham, N. C.
Hurley, Susanne	Greensboro, N. C.
Isley, Judith Armistead	Hampton, Va.
Jeschke, Barbara Ann	Milwaukee, Wis.
Johnson, Carolyn Frances	Upton, Mass.
Johnston, Jane Ellen	Annapolis, Md.
Jolly, Ruth Aileen	Pittsburgh, Pa.
Jones, Caroline Moore	Birmingham, Ala.
Joyner, Virginia Claire	Gainesville, Fla.
Kellogg, Elizabeth Churchill	New York, N. Y.
Keys, Margaret Elizabeth	Fayetteville, N. C.
King, Lora Eileen	Morrisville, Pa.
Kirkmyer, Agnes Weeks	Richmond, Va.
Kriek, Louise Arizia	Enka, N. C.
Labs, Dorothy Elinor	Pitman, N. J.
Lambert, Sarah Garner	Rocky Mount, N. C.
Lance, Sarah Allison	Clinton, N. C.
Lane, Ella Mae	Rocky Mount, N. C.
Lange, Katharine	Washington, D. C.
LaVine, Jean Alice	Stillwater, Minn.
Lawrence, Anna Frances	Durham, N. C.
Lewis, Elizabeth F.	Grand Rapids, Mich.
Lewis, Jane Jacquelyn	Evarts, Ky.
Long, Margaret Elizabeth	Baltimore, Md.
Lucke, Marjorie Esther	Toledo, Ohio
Lukens, Margaret Tyson	Atlanta, Ga.
McClenaghan, Anne Whitaker	Raleigh, N. C.
McDermott, Anna Jeanette	Lansdowne, Pa.
McDonald, Ruth Reade	Durham, N. C.
McGriff, Mary Emily	Birmingham, Ala.
McKelvie, Ruth Campbell	Huntsville, Ala.
McLendon, Ida Gunn	St. Augustine, Fla.
Magoon, Katherine Louise	Havana, Cuba
Magruder, Anne Marshall	Atlanta, Ga.
Maidenbaum, Lilly Ilse	New York, N. Y.
Martch, Jeanne Marie	Fairmont, W. Va.
Matthews, Katherine Elizabeth	Durham, N. C.
Mattox, Doyne	Terre Haute, Ind.
Mead, Martha Elizabeth	Montgomery, Ala.
Medlicott, Elizabeth	Indianapolis, Ind.
Mellin, Anne	Gardner, Mass.
Minner, Eunice Faye	Catasauqua, Pa.
Morrison, Mary Ann	Indianapolis, Ind.
Moseley, Louise Virginia	Yonkers, N. Y.
Moulton, Ruth Floyd	Mobile, Ala.
Murray, Mary Novella	Durham, N. C.
Neel, Mary Louise	Thomasville, Ga.
Nichols, Zora Lois	Homestead, Fla.
Nicholson, Laura Crossan	Durham, N. C.
Norman, Kathryn Wheeler	Raleigh, N. C.
Norris, Mary Louise	Fairmont, W. Va.
Nothstein, Elizabeth Prizer	Mauch Chunk, Pa.
Oakes, Frances Crowe	Weldon, N. C.
Osborne, Phyllis Marie	Camp Davis, N. C.
Overstreet, Mary Belle	Jonesboro, Ark.
Parker, Kathryn White	Durham, N. C.
Pate, Marie Fiquet	Laurinburg, N. C.
Pelletier, Nancy Jane	Kansas City, Mo.
Pendleton, Constance Barton	Falls Church, Va.

Perrin, Susanne Wilby	Columbia, S. C.
Price, Carolyn Louise	Fairfield, Conn.
Price, Jeanne	Forest Hills, N. Y.
Rabel, Annale	New Martinsville, W. Va.
Rake, Margaret Evelyn	Philadelphia, Pa.
Ranger, Mary	Lynn, Mass.
Rankin, Eleanor Lambeth	Durham, N. C.
Rauschenberg, Georgia Andrews	Atlanta, Ga.
Reed, Marian Leona	St. Petersburg, Fla.
Rees, Mildred Nell	Norfolk, Va.
Register, Anne Lee	Greenville, N. C.
Salley, Antoinette	Asheville, N. C.
Samovitz, Zelda May	Poughkeepsie, N. Y.
Scholl, Mary Katherine	Charlotte, N. C.
Seawell, Betty Jane	Carthage, N. C.
Seay, Ruth Doris	Spencer, N. C.
Shuff, Phyllis Carolyn	Greenville, N. C.
Shumate, Camille	Atlanta, Ga.
Smith, Ella Mae	Winston-Salem, N. C.
Smith, Patricia May	Newton Highlands, Mass.
Smith, Sylvia Stewart	Washington, Ill.
Spangler, Nancy	Princeton, W. Va.
Spencer, Shirley Mary	Lake Charles, La.
Stackhouse, Dorothy Lucile	Washington, D. C.
Stark, Marjorie Leigh	Erie, Pa.
Stout, Barbara Maude	Diablo Heights, Canal Zone
Streeter, Beverly Marie	Schenectady, N. Y.
Stribling, Elizabeth Rodway	Washington, D. C.
Taylor, Ruby Lee	Efland, N. C.
Thacker, Bernice	Disputanta, Va.
Thackston, Frances Venable	Durham, N. C.
Thiele, Marguerite Alberta	Charleston, S. C.
Thomas, Dorothy	Clifton, N. J.
Thomas, Margaret	Waycross, Ga.
Thresher, Joyce	Miami Beach, Fla.
Tipton, Evelyn Miller	Petersburg, Va.
Trudal, Evelyn Virginia	Pittsburgh, Pa.
Ward, Virginia Cranston	Cleveland, Ohio
Warren, Margaret Elizabeth	Shaker Heights, Ohio
Warren, Mary Alice	Canton, Ohio
Wasson, Marilynn Clare	Oak Park, Ill.
Watkins, Dorothy Jeanne	Zanesville, Ohio
Wellnitz, Dorothy Ida	Norwalk, Conn.
Whitney, Eleanor Coburn	Greensboro, N. C.
Whitson, Edith Lorraine	Denver, Colo.
Williams, Mary Burchett	Suffolk, Va.
Woody, Mary Sievers	Roxboro, N. C.
Wrench, Leonore Vania	Sao Paulo, Brazil
Zerfass, Virginia Betty	Dansville, N. Y.
Zinner, Dora	Wilmington, Del.

SPECIAL STUDENTS

Adams, Erma Lee	Durham, N. C.
Boulton, Josephine	Vancouver, British Columbia, Canada
Connor, Ireen McDermott	Denver, Colo.
Dunham, Katherine	Durham, N. C.
Easterly, Mrs. Clay	Durham, N. C.
Eberle, Mrs. S. S.	Durham, N. C.
Ennis, Bernice B.	Durham, N. C.

Farrar, Mary	Durham, N. C.
Gooch, Irene Hadden	Durham, N. C.
Harris, Henrietta Catherine	Durham, N. C.
Jolly, Jean Waters	Longhurst, N. C.
Killam, Miriam B.	East Lynn, Mass.
Knight, Helen	Durham, N. C.
Mahaffey, Frances Hurst	Durham, N. C.
May, Gertrude	Durham, N. C.
Pimsner, Leontine	Cleveland, Ohio
Reep, Wilda Elizabeth	Durham, N. C.
Shepherd, Myrtle Louise	Durham, N. C.
Talton, Hilda Yvonne	Durham, N. C.
Ward, Evie M.	Durham, N. C.
Wilkerson, Shirley Anne	Durham, N. C.
Wilson, Evelyn Reed	Durham, N. C.

THE GRADUATE SCHOOL OF ARTS AND SCIENCES

ACADEMIC YEAR, 1943-44

*Adams, Joe Taylor — Dallas, Tex.
B.S. (Southern Methodist University), Chemistry.

Baker, Maury Davison, Jr. — Richmond, Va.
A.B. (University of Miami); A.M. (Duke University), History.

*Bass, Arnold Marvin — New York, N. Y.
B.S. (College of the City of New York); A.M. (Duke University), Physics.

Baumgarten, Erwin — Pasadena, Calif.
B.S. (California Institute of Technology); A.M. (University of California at Los Angeles), Chemistry.

†Bentley, Nancy Joyce — Ravenna, Ohio
A.B. (Duke University), Botany.

Bevan, William, Jr. — Plains, Pa.
A.B. (Franklin and Marshall College); A.M. (Duke University), Psychology, Zoology, Education.

*Bishop, Benjamin Harold — Spartanburg, S. C.
A.B. (Wofford College), Chemistry.

*Bloom, Melvin Sigmund — Greenville, S. C.
B.S. (Furman University), Chemistry.

Braverman, Howard — Brooklyn, N. Y.
A.B. (Brooklyn College), History, Religion.

Bryan, Thomas Conn — Skyland, N. C.
A.B. (Duke University); A.M. (University of North Carolina), History.

Buchanan, Edith — Cullowhee, N. C.
A.B. (Meredith College), English, Philosophy.

Candler, Frances Godfrey — Madison, Ga.
A.B. (Randolph-Macon Woman's College), History, Sociology.

Carroll, Howard — Easton, Md.
A.B. (University of Richmond); B.D. (Duke University), Religion, Greek, Latin.

Cole, Belle — Charlotte, N. C.
A.B. (Winthrop College); M.R.E. (Southwestern Baptist Seminary), Education.

Collins, Herbert — Brooklyn, N. Y.
A.B. (Brooklyn College), History, Economics.

Cooper, Joel Aubrey — Paragould, Ark.
A.B. (Hendrix College); B.D. (Duke University), Religion.

Crockett, Mary Winston — Arlington, Va.
B.S. (University of Virginia), Religion.

*Deal, Carl Hosea, Jr. — Salisbury, N. C.
B.S. (Duke University), Chemistry.

* Enrolled under special science calendar July 1, 1943-June 30, 1944.
† Candidate for A.B. degree, May, 1944.

DuBose, Samuel Wilds — Hillsboro, N. C.
A.B. (Davidson College); B.D. (Union Theological Seminary); A.M. (Duke University), Religion.

Eagles, Pauline Uzzell — Durham, N. C.
A.B. (University of North Carolina), Education.

Elliott, Flavel Scott — Durham, N. C.
A.B. (Dartmouth College); A.M. (University of North Carolina), English.

Erickson, John Otto — Hibbing, Minn.
B.S. (University of Minnesota), Biochemistry.

Evans, Alona Elizabeth — Durham, N. C.
A.B. (Duke University), Political Science.

*Field, Frank Henry — Cliffside Park, N. J.
B.S. (Duke University), Chemistry.

*Freiser, Henry — Durham, N. C.
B.S. (College of the City of New York); A.M. (Duke University), Chemistry.

Frey, Ellen Frances — Durham, N. C.
A.B. (Barnard College); A.M. (Duke University), English.

Fries, Jean Nevin — Chambersburg, Pa.
A.B. (Wilson College), English.

†Gardner, Arthur Parcel — Moscow, Pa.
A.B. (Duke University), German.

*Gilbert, Alfred Rachels — Richmond, Va.
B.S. (University of Richmond); A.M. (Duke University), Chemistry.

Goodwin, Noma Lee — Durham, N. C.
A.B. (Duke University), English.

Green, Charles Sylvester — Durham, N. C.
A.B. (Wake Forest College); A.M., B.D. (Duke University), Religion.

Gue, Irma — Marshalltown, Iowa
B.S. (University of Minnesota), Biochemistry.

Hagan, Emma Jane — Suffolk, Va.
A.B. (Mary Baldwin College), History, Political Science.

*Hendricks, Warren Aiken — Elizabeth City, N. C.
B.S. (Duke University), Physics.

Hertz, Hilda — Forest Hills, L. I., N. Y.
A.B. (Skidmore College), Sociology.

*Holub, Fred Franklin — Cleveland, Ohio
B.S. (Adelbert College of Western Reserve University), Chemistry.

Hopkins, Betty Barbara — Greensboro, N. C.
A.B. (Woman's College of the University of North Carolina), English.

Huff, Jesse William — Jeannette, Pa.
B.S. (University of Pittsburgh), Biochemistry, Chemistry.

Hull, Alma Louise — Harrisburg, Pa.
A.B. (Duke University), Psychology.

Johnson, Daniel Sloan — Oxford, N. C.
A.B., A.M. (Duke University), Education.

Johnson, Lawrence Clifford — Raleigh, N. C.
A.B. (State University of Iowa), Psychology, Education.

Kao, Katherine Chun Ch'un — Peiping, China
A.B., A.M. (Yenching University), Psychology.

Kennedy, Philip Edward — Fairmont, W. Va.
A.B. (Fairmont State Teachers College); A.M. (West Virginia University), English.

Keppel, Dorothy Jane — Berea, Ohio
A.B. (Heidelberg College), Sociology, Economics, Psychology.

King, Sara Edna — Beaver Falls, Pa.
A.B. (Geneva College), Religion, History.

*Kingsbury, Ralph Norman — Milton, Mass.
B.S. (Northeastern University), Chemistry.

* Enrolled under special science calendar July 1, 1943-June 30, 1944.
† Candidate for A.B. degree, May, 1944.

Kingston, Marion Josephine — Melrose, Mass.
A.B. (Mount Holyoke College), English.

Kinsman, Margaret Eleanor — Peoria, Ill.
A.B. (MacMurray College), History.

*Kittila, Richard Sulo — Ely, Minn.
B.Chem. (University of Minnesota), Chemistry.

*Knight, Walter David, Jr. — Newton Centre, Mass.
A.B. (Middlebury College); A.M. (Duke University), Physics.

Knox, Norman Davis — McKeesport, Pa.
A.B. (Swarthmore College), English.

Krathwohl, Betty Augenstine — Silver Creek, N. Y.
B.S. (Alfred University), Zoology, Psychology.

Krauss, Anna — New York, N. Y.
A.B. (Hunter College), Biochemistry.

Kreps, Clifton Holland, Jr. — Norfolk, Va.
A.B. (The College of William and Mary); A.M. (University of North Carolina), Economics, Political Science.

Krummel, Mary Eleanor — Durham, N. C.
A.B. (Duke University); B.S. (Institute of Musical Art), French, Spanish.

Lair, Eugenie Dille — Cynthiana, Ky.
A.B. (Randolph-Macon Woman's College), Botany.

*Levine, Robert — East Boston, Mass.
A.B., A.M. (Dartmouth College), Chemistry.

Lieb, Ruth Marjorie — New York, N. Y.
A.B. (Queens College), English.

Little, Sue Allen Warren — Durham, N. C.
A.B. (East Carolina Teachers College), Psychology.

Loveland, Clara Olds — Glendale, Ohio
A.B. (Wellesley College); A.M. (Columbia University); B.D. (Berkeley Divinity School), Religion, Education.

Luborsky, Lester Bernard — Philadelphia, Pa.
A.B. (Temple University); A.M. (Duke University), Psychology, Education, Zoology.

*Lyons, Richard Edwin — Buffalo, N. Y.
A.B. (University of Buffalo), Physics.

McAndrew, Florence Helton — Chicago, Ill.
A.B. (Mary Baldwin College); A.M. (Northwestern University); Psychology, Sociology.

McClain, Howard Gordon — Sherman, Tex.
A.B. (Vanderbilt University); B.D. (Southern Baptist Theological Seminary), Religion.

McLennan, Marietta — Greensboro, N. C.
A.B. (Woman's College of the University of North Carolina), Education, Psychology.

McNeill, Ellis Meade — Athens, W. Va.
A.B. (Concord State Teachers College); M.S. (West Virginia University), Botany, Forestry.

*Manes, Milton — New York, N. Y.
B.S. (College of the City of New York), Chemistry.

Matte, Lorenzo — Quebec City, Canada
B.A. (Laval University); M.F. (Duke University), Forestry, Mathematics.

Miller, Annie Donnell — Durham, N. C.
A.B. (University of North Carolina), Education, French.

*Moore, Edward James, Jr. — Getzville, N. Y.
A.B. (University of Buffalo), Physics.

Morris, Clara Juanita — Benham, Ky.
A.B. (Berea College), Economics.

*†Nauman, Robert Vincent — Stroudsburg, Pa.
B.S. (Duke University), Chemistry.

* Enrolled under special science calendar July 1, 1943-June 30, 1944.
† Candidate for B.S. degree, June, 1944.

O'Brien, Joseph William — Kingsville, Ohio
A.B. (Georgetown College); B.D. (Colgate-Rochester Divinity School), Religion, Philosophy.

Oglesby, Roscoe Ralph — Lynchburg, Va.
A.B. (Georgetown College); A.M. (University of Virginia), Political Science.

Parks, Elizabeth Miriam — Denver, Colo.
A.B. (Grinnell College), English.

Phillips, Edward Lindsey — Durham, N. C.
A.B., A.M. (Duke University), Education.

*Phillips, Preson Peek, Jr. — Durham, N. C.
B.S., A.M. (Duke University), Chemistry.

Pirkle, Eva Ann — Decatur, Ga.
A.B. (Agnes Scott College), Mathematics.

Pohl, Marian Evelyn — Trenton, N. J.
B.S. (Duke University), Zoology.

Ramsay, Charles McKay — Lynnville, Tenn.
A.B. (Berea College); B.D. (Union Theological Seminary), Religion, Greek, Latin.

*Randall, Elma Louise — Daytona Beach, Fla.
A.B. (John B. Stetson University), Zoology.

*Rapoport, Lorence — Hartford, Conn.
A.B. (Harvard College), Chemistry.

Raskin, Vilma Leah — Brooklyn, N. Y.
A.B. (Brooklyn College), English, Philosophy.

Raymond, Ruth — Durham, N. C.
A.B. (University of Chattanooga), Bacteriology, Botany, Zoology.

Richards, Claud Henry, Jr. — Fort Worth, Tex.
A.B. (Texas Christian University); A.M. (Duke University), Political Science.

Roebuck, Julian Baker — Wilson, N. C.
A.B. (Atlantic Christian College), Sociology, History.

*Rosenbaum, Haskell Menachim — Sunnyside, N. Y.
B.S. (College of the City of New York), Chemistry.

Rudisill, Dorus Paul — Durham, N. C.
A.B. (Lenoir Rhyne College); A.M. (University of South Carolina); B.D. (Lutheran Theological Southern Seminary); S.T.M. (Hartford Theological Seminary), Religion, Philosophy.

Schaedler, Frances Ann Craghead — Lynchburg, Va.
A.B. (Randolph-Macon Woman's College); A.M. (Duke University), Latin, Greek.

Schafer, Thomas Anton — Liverpool, Ohio
A.B. (Maryville College); B.D. (Louisville Presbyterian Theological Seminary), Religion.

*Scheraga, Harold Abraham — Durham, N. C.
B.S. (College of the City of New York); A.M. (Duke University), Chemistry.

Shapiro, Constance — New York, N. Y.
A.B. (Hunter College), English.

*Shivers, Joseph Clois, Jr. — Riverton, N. J.
B.S., A.M. (Duke University), Chemistry.

Smith, William Jordan Joseph — Dallas, Tex.
A.B. (University of Texas), Economics.

†Stackhouse, Dorothy Lucile — Washington, D. C.
A.B. (Duke University), Economics, History.

Starr, Homer Pilgrim — Burlington, N. C.
A.B. (The University of the South); B.D. (Virginia Theological Seminary), Philosophy.

Stone, Ann — Jackson, Miss.
A.B. (Millsaps College), Spanish, French.

*Tarrant, Paul — Durham, N. C.
B.S. (Howard College); M.S. (Purdue University), Chemistry.

Taylor, Harold Norman — Jasonville, Ind.
A.B., A.M. (State University of Iowa), History.

* Enrolled under special science calendar July 1, 1943-June 30, 1944.
† Candidate for A.B. degree, May, 1944.

Thevaos, Deno George — Augusta, Ga.
A.B. (Emory University), Education, Psychology.

Tomlinson, Muriel Dorothy — Manchester, Conn.
A.B. (Bates College), French, Spanish.

*Tompson, Reade Yates — Attleboro, Mass.
B.S. (Brown University), Chemistry.

Townsend, Freda Liverant — York, Pa.
A.B., A.M. (Duke University), English.

Truscott, Ethel Irene — Lomas de Zamora, Argentina
A.B. (Coker College), English.

Vicars, Agnes Mae — Wise, Va.
B.S. (Radford State Teachers College), Education, Zoology.

Volkin, Elliot — Mt. Pleasant, Pa.
B.S. (Pennsylvania State College), Biochemistry, Chemistry.

*Walker, Howard George, Jr. — Westfield, N. J.
B.S. (Duke University), Chemistry, Physics.

Wall, Mildred Eugenia — Birmingham, Ala.
A.B. (Birmingham-Southern College), History, English.

Walter, Margaret VanHorne — Durham, N. C.
A.B. (University of Illinois), English.

†Warren, Margaret Elizabeth — Shaker Heights, Ohio
A.B. (Duke University), Chemistry.

*Weiss, Martin Joseph — New York, N. Y.
A.B. (New York University), Chemistry.

Weith, Archie James, Jr. — Caldwell, N. J.
A.B., A.M. (Duke University), Chemistry.

Wellborn, Mary Moss — Durham, N. C.
A.B. (Mississippi State College for Women), English.

Wiggins, Elizabeth Lewis — Holly Hill, S. C.
A.B. (Winthrop College); A.M. (Duke University), English, Philosophy.

Wiggins, Pauline Evelyn — Birchwood, Tenn.
A.B. (University of Chattanooga), English.

Wilson, Jane Bliss — Durham, N. C.
A.B. (Duke University); A.B. in Library Science (University of North Carolina), English, French.

Wilson, Ulrey Kaulbach — Durham, N. C.
A.B. (University of Chattanooga), Education.

*Wissow, Lennard Jay — Philadelphia, Pa.
B.S. (Pennsylvania State College); A.M. (Duke University), Chemistry.

Wood, Virginia Loraine — Roanoke, Va.
A.B. (Roanoke College), Political Science, History.

Woodbridge, Charles Jahleel — Salisbury, N. C.
A.B., A.M., Th.B. (Princeton University), Religion, History.

*Yost, Robert Stanley — Pottsville, Pa.
B.S. (Pennsylvania State College), Chemistry.

Young, Franklin Woodrow — Chester, Pa.
A.B. (Dartmouth College); B.D. (Crozer Theological Seminary), Religion, Greek, Latin.

SUMMER OF 1943; FIRST TERM

Adams, Joe Taylor — Dallas, Tex.
B.S. (Southern Methodist University), Chemistry.

Ahalt, Paul Edwin — Vinton, Va.
A.B. (Roanoke College), Education.

Amore, Salvatore Thomas — Brooklyn, N. Y.
A.B. (Brooklyn College); A.M. (Duke University), Chemistry.

Anderson, Lucian Dumas — Seneca, S. C.
A.B. (Winthrop College), English.

* Enrolled under special science calendar July 1, 1943-June 30, 1944.
† Candidate for A.B. degree, May, 1944.

Archibald, Jean Marie — North Amherst, Mass.
A.B. (Massachusetts State College), Education.

Ausherman, Margaret Hannah — Fayetteville, Pa.
B.S. (Shippensburg State Teachers College), Education.

Autry, Randall Franklin — Godwin, N. C.
A.B. (University of North Carolina), English.

Baker, Maury Davison, Jr. — Richmond, Va.
A.B. (University of Miami); A.M. (Duke University), History.

Baldwin, Arda Palmer — Wood, Pa.
A.B. (Emory and Henry College), Education.

Ballagh, Robert Hamilton — Bedford, Va.
A.B. (Lynchburg College), Education.

Barnes, George Hector — Logan, Utah
B.Sc.F. (University of Washington); M.S. (University of California), Forestry.

Baumgarten, Erwin — Pasadena, Calif.
B.S. (California Institute of Technology); A.M. (University of California at Los Angeles), Chemistry.

Bell, Helen Foreé — Bluefield, W. Va.
B.S. (West Virginia University), Education.

Benham, Ruth Virginia — St. Petersburg, Fla.
B.S. (Birmingham-Southern College), Education.

Best, Albert Hartwell, Jr. — Durham, N. C.
A.B. (Wofford College), Education.

Bevan, William, Jr. — Wilkes-Barre, Pa.
A.B. (Franklin and Marshall College), Psychology.

Black, Caroline Banks — Charleston, S. C.
A.B. (College of Charleston), History.

Blakeslee, Edward Ray, Jr. — Wilmington, N. C.
B.S. (East Stroudsburg State Teachers College), Education.

Blakeslee, Verna Treat — Wilmington, N. C.
B.S. (East Stroudsburg State Teachers College), English.

Blanton, Mayme Betty Newbern — Gatlinburg, Tenn.
A.B. (Chowan College), Education.

Bloom, Melvin Sigmund — Greenville, S. C.
B.S. (Furman University), Chemistry.

Bowman, Audria Mae — McConnell, W. Va.
A.B. (Marshall College), Education.

Browning, Lawrence Lonville Eptan — Logan, W. Va.
B.S. (Illinois Institute of Technology), Education.

Burch, Sarah Frances — Hughes, Ark.
B.S. (Memphis State College), Education.

Burts, Robert Milton, Jr. — Honea Path, S. C.
A.B. (Berry College), History.

Cappellari, Silea Amelia — Beckley, W. Va.
A.B. (St. Mary of the Springs), Spanish.

Chanal, Anna Maxine — Kansas City, Mo.
B.S. (Teachers College of Kansas City), Education.

Chapman, Mildred Frances — Hartford, W. Va.
A.B. (Marshall College), Education.

Chew, Jeanne Maurer — Pittsburgh, Pa.
A.B. (Pennsylvania State College), Spanish.

Coble, Joseph Fillmore — Tabor City, N. C.
A.B. (High Point College); S.T.B. (Westminster Theological Seminary), Religion.

Cockman, Hazel — Durham, N. C.
A.B. (Duke University), Education.

Cook, Annie Virginia — Roanoke, Va.
A.B. (Randolph-Macon Woman's College), History.

Cooper, Frances Harlee — Spartanburg, S. C.
A.B. (Carson-Newman College), History.

Copp, Earl Picard — Middlebury, Conn.
A.B. (Dartmouth College), English.

Council, Annabelle — Durham, N. C.
B.S. (Appalachian State Teachers College), English.

Craig, Martha Myers — Toronto, Ohio
A.B. (Muskingum College), Education.

Creath, William Fontaine — South Boston, Va.
B.S. (University of Richmond), Education, Economics.

Cole, Margaret Evelyn — Baldwyn, Miss.
A.B. (Mississippi State College for Women), Zoology.

Dale, Dorothy Jeanne — Murray, Ky.
A.B. (Murray State Teachers College), English.

Day, Margaret Kathleen — Statesville, N. C.
B.S. (Appalachian State Teachers College), Education.

Deal, Carl Hosea, Jr. — Salisbury, N. C.
B.S. (Duke University), Chemistry.

Duke, Mary Catherine — Bakerton, W. Va.
A.B. (Shepherd State Teachers College), History.

Edmeston, Rhoda Christena — Blyth, Ontario, Canada
A.B. (University of Denver); A.M., Ph.D. (Boston University), Spanish.

Ellis, Ivy Mary Phillips — Durham, N. C.
A.B. (East Carolina Teachers College), Education.

Erickson, John Otto — Hibbing, Minn.
B.S. (University of Minnesota), Biochemistry.

Evans, Eunice Ledbetter — Morganton, N. C.
A.B. (Salem College), Education.

Fant, Alethea Blackmore — Warsaw, N. C.
B.S. (Mary Washington College), Sociology.

Field, Frank Henry — Cliffside Park, N. J.
B.S. (Duke University), Physics.

Flaherty, Anne Grace — Pittston, Pa.
B.S. (Mansfield State Teachers College), Education.

Flanagan, William Leroy — Kite, Ga.
B.S. (South Georgia Teachers College), Education.

Fohl, Jean Mae — Biglerville, Pa.
B.S. (Shippensburg State Teachers College), Education.

Foster, Sarah Lettice — Clifton, S. C.
A.B. (Winthrop College); A.M. (Columbia University), Spanish.

Freiser, Henry — Durham, N. C.
B.S. (College of the City of New York); A.M. (Duke University), Chemistry.

Garrison, Evelyn Crutchfield — East Bend, N. C.
A.B. (Meredith College), Education.

Garrison, Roy Charles — East Bend, N. C.
A.B. (Carson-Newman College); A.M. (Duke University), Education.

George, Ida Maria — Comfort, N. C.
A.B. (East Carolina Teachers College), English.

Gilbert, Alfred Rachels — Dyersburg, Tenn.
B.S. (University of Richmond), Chemistry.

Grose, Georgianna Mary — Huntington, W. Va.
A.B. (Marshall College), Education, Sociology.

Guesman, Adelaide Ivill — Monongahela, Pa.
B.S. (California State Teachers College), Education.

Harbison, James Wesley — Pinehurst, N. C.
A.B. (Duke University), Education.

Harman, Ivey Cilvia — Washington, N. C.
A.B. (Atlantic Christian College), Education.

Harrell, Margaret Elizabeth — Cordele, Ga.
A.B. (Wesleyan College), Religion.

Hartman, Inez Rebecca — Hixson, Tenn.
A.B. (University of Chattanooga), Spanish.

Haslam, George Harold — Milledgeville, Ga.
A.B., A.M. (University of Georgia), Economics.

Haugh, Florence Irma — Pittsburgh, Pa.
A.B. (Geneva College), Spanish.

Heagy, Dorothy May — York, Pa.
B.S. (Millersville State Teachers College), Education.

Hix, David Neal — Williamston, N. C.
A.B. (Duke University), Education.

Holston, Norene — Montcalm, W. Va.
A.B. (Concord State Teachers College), Education.

Holub, Fred Franklin — Cleveland, Ohio
B.S. (Western Reserve University), Physics.

Hood, Mallie Roy — Danville, Va.
A.B. (Mississippi College), Zoology.

Huff, Jesse William — Jeannette, Pa.
B.S. (University of Pittsburgh), Biochemistry.

Huntley, Arthur Gene — Salem, Ore.
A.B. (Willamette University), Economics.

Hurd, Shirley Elizabeth — Clarksburg, W. Va.
A.B. (Fairmont State Teachers College), English.

Ingram, Mary Middleton — Wilmington, N. C.
A.B. (Woman's College of the University of North Carolina), Education.

Jacobs, Edith Herlong Barfield — Miami, Fla.
A.B. (Duke University), Education.

Jenkins, Wilmer Mitchell — Durham, N. C.
B.S. (Wake Forest College), Education.

Johnson, Emma Bain — Thomasville, N. C.
A.B. (Duke University), English.

Joyner, Alma Luna — Zebulon, N. C.
B.S. (Appalachian State Teachers College), Education.

Kellar, Maynard Herbert — Malden, W. Va.
A.B. (Fairmont State Teachers College), Education.

Kelly, Kathleen Eliza — Warren, Ohio
A.B. (Ohio University), Education.

Keppel, Dorothy Jane — Berea, Ohio
A.B. (Heidelberg College), Sociology, Education.

Kern, Mary Katharine — Winchester, Va.
A.B. (Goucher College), English.

Kittila, Richard Sulo — Ely, Minn.
B.Chem. (University of Minnesota), Chemistry.

Koon, Macel — Spencer, W. Va.
A.B. (Alderson-Broaddus College), Education.

Law, James Vincent — Ridgeway, Va.
A.B. (Emory and Henry College), Education.

Lenoir, Nelie Golda — Summit, Miss.
B.S. (Mississippi Southern College), Education.

Levine, Robert — East Boston, Mass.
A.B., A.M. (Dartmouth College), Chemistry.

Lewis, Nancy Eloise — Canton, Ohio
A.B. (Denison University), English.

Lorman, Justine Helen — Philadelphia, Pa.
A.B. (University of Pennsylvania), English.

Loveless, Ruth — Mt. Dora, Fla.
A.B. (Florida State College for Women), English.

Luborsky, Lester Bernard — Philadelphia, Pa.
A.B. (Temple University), Psychology.

Lyons, Richard Edwin — Buffalo, N. Y.
A.B. (University of Buffalo), Physics.

McClure, Paul Fleming — DuBois, Pa.
B.S. (Thiel College), Education, Sociology.

McCown, Marietta M. — Anderson, S. C.
A.B. (Winthrop College), Education.

McCurdy, John Albert — Matawan, N. J.
B.S. (Rutgers University), Education, History.

McDonald, Alma Ione — Clinton, Miss.
A.B. (Mississippi College), Education, Sociology.

McDowell, Virginia — Paducah, Ky.
A.B. (Murrary State Teachers College), English.

McGirt, William Archibald, Jr. — Wilmington, N. C.
A.B. (Duke University), English.

McGovern, Betty Ann — Carnegie, Pa.
B.S. (Seton Hill College), Education, Sociology.

Mackay, Pauline Peeler — Orangeburg, S. C.
A.B. (Winthrop College), Education.

MacNeill, Doris Elaine — Penn's Grove, N. J.
B.S. (Glassboro State Teachers College), Education, English.

Malcolm, Pearle Malinda — Philippi, W. Va.
A.B. (Alderson-Broaddus College), Education.

Manes, Milton — New York, N. Y.
B.S. (College of the City of New York), Physics.

Mathias, Ama Avis — Mathias, W. Va.
B.S. (Madison College), Education, English.

Mathias, Audrie Lynn — Mathias, W. Va.
B.S. (Madison College), Education, English.

Matthews, Hester Poole — Bennettsville, S. C.
A.B. (Winthrop College), Spanish.

Miller, Sidney Franklin — Varnville, S. C.
B.S. (The Citadel), Education.

Miller, William Durell — Jacksonville, Fla.
A.B. (University of Florida), History.

Mitchell, Edith Myrl — Greenville, Tenn.
A.B. (Tusculum College), History.

Montgomery, John Fleshman — Lewisburg, W. Va.
A.B. (Hampden-Sydney College); A.M. (University of Southern California). Education.

Moomaw, Lorana Tillman — Roanoke, Va.
B.S. (Farmville State Teachers College), History.

Moore, Bruce Lipscomb — Columbia, S. C.
A.B. (Coker College), English.

Nichols, Hugh Lester — Durham, N. C.
A.B. (Duke University); Th.M. (Southern Baptist Theological Seminary), Religion

Norberg, Carl Gustav — East Aurora, N. Y.
A.B. (Marshall College), Education.

Oates, Julia Neagle — Hendersonville, N. C.
A.B. (Woman's College of the University of North Carolina), English.

Oliver, Carol Hoover — Washington, D. C.
A.B. (Duke University), Economics.

Parker, Edna Earle — W. Palm Beach, Fla.
A.B. (Florida State Teachers College for Women), Education, Sociology.

Paskins, Cloyd Woodrow — Matton, Ill.
B.Ed. (Eastern Illinois State Teachers College), History.

Patterson, Edith Gray — Haddonfield, N. J.
B.S. (Glassboro State Teachers College), Education, English.

Patton, Dorothy Jean — Beaver Falls, Pa.
A.B. (Geneva College), English.

Perry, Eustace Rivers — Stovall, N. C.
A.B. (Duke University), Education.

Phillips, Preson Peek, Jr. — Durham, N. C.
B.S. (Duke University), Physics.

Pittman, DeWitt Kennieth — Laurinburg, N. C.
A.B. (Duke University), Education, Economics.

Pitts, Mabel Davidson — Jacksonville, Fla.
B.S. (Georgia State College for Women), Education.

Pohl, Marian Evelyn — Trenton, N. J.
B.S. (Duke University), Zoology.

Powell, Lillie Mae — Kingsport, Tenn.
A.B. (Carson-Newman College), History.

Pressly, Eleanor Crockett — Greenwood, S. C.
A.B. (Erskine College), Mathematics, Education.

Prillaman, Mary Jane — Southern Pines, N. C.
B.E. (Teachers College of Connecticut), Education.

Propst, Mary Elizabeth — Concord, N. C.
A.B. (Duke University), Education.

Proudfoot, Mary Grace — Philippi, W. Va.
A.B. (Alderson-Broaddus College), History.

Pyle, Katherine Asenath — Burgettstown, Pa.
A.B. (Pennsylvania College for Women), English.

Rapoport, Lorence — Hartford, Conn.
A.B. (Harvard College), Chemistry.

Rhodes, Claud Anne — Jacksonville, Fla.
A.B. (Florida State College for Women), Sociology.

Richards, Claud Henry, Jr. — Fort Worth, Tex.
A.B. (Texas Christian University); A.M. (Duke University), Political Science.

Roebuck, Julian Baker — Robersonville, N. C.
A.B. (Atlantic Christian College), Sociology, History.

Rudisill, Dorus Paul — Durham, N. C.
A.B. (Lenoir Rhyne College); A.M. (University of South Carolina); B.D. (Southern Seminary); S.T.M. (Hartford Theological Seminary), Religion.

Russell, Mattie — Carthage, Miss.
A.B., A.M. (University of Mississippi), History.

Salley, Claudia Louise — Biltmore, N. C.
A.B. (University of Tennessee), History.

Scheraga, Harold Abraham — Brooklyn, N. Y.
B.S. (College of the City of New York); A.M. (Duke University), Chemistry.

Schoenberger, Ruth Isobel — Langhorne, Pa.
A.B. (Duke University), English.

Shank, Geraldine Cleo — Schuylkill Haven, Pa.
B.S. (Shippensburg State Teachers College), Education.

Sharp, Florence Abigail — Reidsville, N. C.
B.S. (Woman's College of the University of North Carolina), Economics.

Shelton, Edith Ella — Marshall, N. C.
B.S. (Asheville College), Education, Sociology.

Shivers, Joseph Clois, Jr. — Riverton, N. J.
B.S., A.M. (Duke University), Chemistry.

Sorrell, Juanita — Raleigh, N. C.
A.B. (Meredith College), History.

Spangler, Dorn Odell — Meadows of Dan, Va.
A.B. (Westminster College), Education.

Speirs, Margaret Jane — Pittsburgh, Pa.
A.B. (University of Pittsburgh), History.

Stoner, Aaron Hess — Silver Spring, Md.
B.S. (Millersville State Teachers College), Education.

Stull, Martha Louise — Waynesboro, Pa.
B.S. (Shippensburg State Teachers College), Education.

Tarrant, Paul — Durham, N. C.
B.S. (Howard College); M.S. (Purdue University), Chemistry.

Taylor, Donald Lavor — Ephraim, Utah
B.S., M.S. (Utah State Agricultural College), Sociology.

Taylor, Louise Randall — Buie's Creek, N. C.
A.B. (John B. Stetson University), Zoology.

Taylor, Melvin Holmes — Charlotte, N. C.
A.B. (Duke University), Education.

Tiel, Eleanor Elizabeth — Pittsburgh, Pa.
A.B. (Pennsylvania College for Women), Education.

Tompson, Reade Yates — Attleboro, Mass.
Sc.B. (Brown University), Chemistry.

Trammell, Frances Mauldin — Auburn, Ala.
B.S., M.S. (Alabama Polytechnic Institute), English.

Trivette, Ruth Jane Whitman — Hickory, N. C.
A.B. (Marshall College), Education.

Volkin, Elliot — Mt. Pleasant, Pa.
B.S. (Pennsylvania State College), Chemistry.

Walden, Mary Grace — Macon, Ga.
A.B. (Wesleyan College), Education.

Walker, Howard George, Jr. — Westfield, N. J.
B.S. (Duke University), Chemistry.

Walker, Thelma Pauline — Johnson City, Tenn.
B.S. (East Tennessee State Teachers College), History.

Webb, Lester Dell — Sweatman, Miss.
A.B. (Mississippi College), Education.

Wheeling, Averyl Winifred Jessie — Cochranton, Pa.
B.S. (Edinboro State Teachers College), Education, English.

Wiggins, Pauline Evelyn — Birchwood, Tenn.
A.B. (University of Chattanooga), English.

Wiley, Virginia — Lynchburg, Va.
A.B. (Randolph-Macon Woman's College), English.

Williams, Winona — Woodleaf, N. C.
A.B. (Greensboro College); A.M. (Duke University), Education.

Willits, Esther May — Laureldale, Pa.
B.S. (West Chester State Teachers College), History.

Wilmore, Nancy Strother — Bluefield, W. Va.
A.B. (West Virginia University), English.

Wilson, Elna Louise — Philippi, W. Va.
A.B. (Alderson-Broaddus College), English.

Wilson, Ulrey Kaulbach — Chattanooga, Tenn.
A.B. (University of Chattanooga), Education.

Wissow, Lennard Jay — Philadelphia, Pa.
B.S. (Pennsylvania State College); A.M. (Duke University), Chemistry.

Woodward, Leonard Groninger — Garland, N. C.
A.B. (Duke University), Education.

Yost, Robert Stanley — Pottsville, Pa.
B.S. (Pennsylvania State College), Physics.

Zeigler, Frances Chambers — Tampa, Fla.
B.S. (Florida Southern College), Education, Sociology.

SUMMER OF 1943; SECOND TERM

Anderson, Lucian Dumas — Seneca, S. C.
A.B. (Winthrop College), English.

Autry, Randall Franklin — Godwin, N. C.
A.B. (University of North Carolina), English

Beeson, Ann Campbell — Johnson City, Tenn.
A.B. (Tusculum College), Education.

Bell, Helen Foreé — Bluefield, W. Va.
B.S. (West Virginia University), Education.

Bevan, William, Jr. — Wilkes-Barre, Pa.
A.B. (Franklin and Marshall College), Psychology.

Blakeslee, Edward Ray, Jr. — Wilmington, N. C.
B.S. (East Stroudsburg State Teachers College), Education.

Blakeslee, Verna Treat — Wilmington, N. C.
B.S. (East Stroudsburg State Teachers College), Education.

Blanton, Mayme Betty Newbern — Gatlinburg, Tenn.
A.B. (Chowan College), Education.

Bollens, Jack Constantinus — Pittsburgh, Pa.
A.B. (College of Wooster), Political Science, Economics.

Bowman, Audria Mae — McConnell, W. Va.
A.B. (Marshall College), Education.

Brosius, Magdalene Hershey — Atglen, Pa.
B.S. (West Chester State Teachers College), Education.

Browning, Lawrence Lonville Eptan — Logan, W. Va.
B.S. (Illinois Institute of Technology), Education.

Bulwinkle, Muriel Charlton — Gastonia, N. C.
A.B. (Duke University), English, Education.

Burts, Robert Milton, Jr. — Honea Path, S. C.
A.B. (Berry College), History.

Cook, Viola — Whitesburg, Ky.
A.B. (Kentucky Wesleyan College), English.

Copp, Earl Picard — Middlebury, Conn.
A.B. (Dartmouth College), English.

Craig, Miriam — Columbus, Ga.
B.S. (Georgia State College for Women), Education.

Creath, William Fontaine — South Boston, Va.
B.S. (University of Richmond), Education.

Erickson, John Otto — Hibbing, Minn.
B.S. (University of Minnesota), Chemistry.

Fant, Alethea Blackmore — Warsaw, N. C.
B.S. (Mary Washington College), Eucation.

Flaherty, Anne Grace — Pittston, Pa.
B.S. (Mansfield State Teachers College), History, English.

Flanagan, William Leroy — Kite, Ga.
B.S. (South Georgia Teachers College), Education.

Graham, George Sylvester — Staunton, Va.
A.B. (Columbia University); A.M. (University of Pennsylvania), History.

Guesman, Adelaide Ivill — Monongahela, Pa.
B.S. (California State Teachers College), Education.

Harrell, Margaret Elizabeth — Cordele, Ga.
A.B. (Wesleyan College), Religion.

Hendler, Cornelia Clara — Buffalo, N. Y.
B.S. (Buffalo State Teachers College), Education.

Hiott, Sherrill Craig — Lancaster, S. C.
A.B., A.M. (University of South Carolina), Education.

Hix, David Neal — Williamston, N. C.
A.B. (Duke University), Education.

Johnson, Emma Bain — Thomasville, N. C.
A.B. (Duke University), Education.

Johnson, Rosemary Veronica — Chevy Chase, Md.
B.S. (Wilson Teachers College), Education.

Kagy, Joseph Archer — DuBois, Pa.
A.B. (Allegheny College), Education.

Kendig, Anna Mae — Conestoga, Pa.
B.S. (Millersville State Teachers College), Education.

Kern, Mary Katharine — Winchester, Va.
A.B. (Goucher College), Religion.

Kilar, Irene Louise — Rahway, N. J.
B.S. (Newark State Teachers College), Education.

Law, James Vincent — Ridgeway, Va.
A.B. (Emory and Henry College), Education.

Leffler, Alice Frederick — Elkton, Md.
B.S. (Hood College), Education.

Lewis, Nancy Eloise — Canton, Ohio
A.B. (Denison University), English.

Loveless, Ruth — Mt. Dora, Fla.
A.B. (Florida State College for Women), English.

Luborsky, Lester Bernard — Philadelphia, Pa.
A.B. (Temple University), Psychology.

McClure, Paul Fleming — DuBois, Pa.
B.S. (Thiel College), Sociology.

McCurdy, John Albert — Matawan, N. J.
B.S. (Rutgers University), Education.

McDonald, Alma Ione — Clinton, Miss.
A.B. (Mississippi College), Education.

Mackay, Pauline Peeler — Orangeburg, S. C.
A.B. (Winthrop College), Education.

MacNeill, Doris Elaine — Penn's Grove, N. J.
B.S. (Glassboro State Teachers College), Education, English.

Malcolm, Pearle Malinda — Philippi, W. Va.
A.B. (Alderson-Broaddus College), Education.

Mathias, Ama Avis — Mathias, W. Va.
B.S. (Madison College), Education.

Moomau, Mary Newlon — Petersburg, W. Va.
A.B. (Davis and Elkins College), Education.

Moore, Bruce Lipscomb — Columbia, S. C.
A.B. (Coker College), English.

Moore, Nelle Elizabeth — Capleville, Tenn.
A.B. (Lambuth College), English.

O'Mara, Margaret Theresa — Millburn, N. J.
B.S. (Newark State Teachers College), Education.

Parker, Edna Earle — W. Palm Beach, Fla.
A.B. (Florida State College for Women), Education.

Paskins, Cloyd Woodrow — Mattoon, Ill.
B.Ed. (Eastern Illinois State Teachers College), History, English.

Patton, Dorothy Jean — Beaver Falls, Pa.
A.B. (Geneva College), English.

Pettenati, Yolanda Bona — Crosby, Pa.
B.S. (Lock Haven State Teachers College), Education.

Pitten, Diana Marie — Kenilworth, N. J.
B.S. (Newark State Teachers College), Education.

Pitts, Mabel Davidson — Jacksonville, Fla.
B.S. (Georgia State College for Women), Education.

Powell, Lillie Mae — Kingsport, Tenn.
A.B. (Carson-Newman College), History.

Pressly, Eleanor Crockett — Greenwood, S. C.
A.B. (Erskine College), Mathematics, Education.

Prickett, Irene Teresa — Fairmont, W. Va.
A.B. (Fairmont State Teachers College), Education.

Propst, Mary Elizabeth — Concord, N. C.
A.B. (Duke University), Education, History.

Rogers, Greene Titus — Mamers, N. C.
A.B. (Wake Forest College), Education.

Russell, Mattie — Carthage, Miss.
A.B., A.M. (University of Mississippi), History.

Salley, Claudia Louise — Biltmore, N. C.
A.B. (University of Tennessee), History.

Salter, Harriett May — Altoona, Pa.
A.B. (Dickinson College), History.

Schoenberger, Ruth Isobel — Langhorne, Pa.
A.B. (Duke University), English.

Southerland, Myra Azalene — Wilmington, N. C.
A.B. (East Carolina Teachers College), Education.

Spangler, Dorn Odell — Meadows of Dan, Va.
A.B. (Westminster College), Education.

Taylor, Donald Lavor — Ephraim, Utah
B.S., M.S. (Utah State Agricultural College), Sociology.

Walker, Thelma Pauline — Johnson City, Tenn.
B.S. (East Tennessee State Teachers College), Education.

Walters, Margaret Genevieve — Galena, Md.
A.B. (Washington College), Education.

Wiggins, Pauline Evelyn — Birchwood, Tenn.
A.B. (University of Chattanooga), English.

Willits, Esther May — Laureldale, Pa.
B.S. (West Chester State Teachers College), History.

Wilson, Ulrey Kaulbach — Chattanooga, Tenn.
A.B. (University of Chattanooga), Education.

Woodward, Leonard Groninger — Garland, N. C.
A.B. (Duke University), Education.

THE DIVINITY SCHOOL

SENIOR YEAR

Albright, William Edward — Bluefield, W. Va.
A.B., Emory and Henry College, 1941.

Andrews, Joseph Russell — Pamplin, Va.
A.B., Wofford College, 1939.

Bame, Robert Lee — Carolina Beach, N. C.
A.B., Wofford College, 1941.

Beard, John S. — Clayton, Mo.
A.B., Central College, 1940.

Bell, Roy Edison — Charlotte, N. C.
A.B., Catawba College, 1941.

Boggs, Charles Marvin — Salisbury, N. C.
A.B., Wofford College, 1941.

Boone, Sidney Grant — Nashville, N. C.
A.B., Duke University, 1934.

Carlton, Arthur McCoy — Montgomery, Ala.
A.B., Birmingham-Southern College, 1941.

Carter, James Edwin — Milton, N. C.
B.S., Appalachian State Teachers College, 1940.

Chaffin, James Claude — Jonesboro, N. C.
A.B., Duke University, 1941.

Conyers, David Paxton — Sidney, Ark.
A.B., Hendrix College, 1941.

Elliott, Mahlon Hamlett — Danville, Va.
A.B., Asbury College, 1942.

Evans, Robert Weldon — Batesville, Ark.
A.B., Hendrix College, 1941.

Fleming, Murry Douglas — Terrell, Tex.
A.B., Southern Methodist University, 1941.

Galloway, Benedict Atkins — Zachary, La.
A.B., Louisiana State University, 1938.

Glenn, Henry Clarence, III — Durham, N. C.
A.B., Duke University, 1938.

Hendrix, Major Clyde — West Columbia, S. C.
A.B., University of South Carolina, 1941.

Ingram, Osmond Kelly — Wilmington, N. C.
A.B., Birmingham-Southern College, 1940.

Jones, George Wesley — Norfolk, Va.
A.B., Randolph-Macon College, 1941.

Jordan, John Sharpe — West Jefferson, N. C.
A.B., Duke University, 1940.

Kennedy, Arthur Cicero, Jr. — Midland, N. C.
A.B., High Point College, 1941.

Knight, James Allen — St. George, S. C.
A.B., Wofford College, 1941.

McCoy, Lewistine Martin — Lexington, Ky.
A.B., Kentucky Wesleyan College, 1940.

McDonald, Thaddeus LeVerne — Jasper, Ala.
B.S., Birmingham-Southern College, 1941.

McGuire, Douglas Lyons — Arcadia, La.
A.B., Louisiana Polytechnic Institute, 1941.

Mackay, Donald Mason — Atlanta, Ga.
A.B., Emory University, 1938.

Miller, Gilbert Shelly — Greensboro, N. C.
A.B., Lenoir-Rhyne College, 1940.

Mitchell, Charles Maness — Buies Creek, N. C.
A.B., Duke University, 1941.

Musser, Benjamin Franklin — Savannah, Ga.
A.B., Hendrix College, 1941.

Pannill, Harry Burnell — Waynesboro, Va.
A.B., Randolph-Macon College, 1941.

Phifer, Ernest Carl — Leona, Tex.
A.B., Stephen F. Austin State Teachers College, 1940.

Powell, John James — Reidsville, N. C.
A.B., Lenoir-Rhyne College, 1939.

Rainwater, Roland William, Jr. — Roberdell, N. C.
A.B., Wofford College, 1940.

Register, Kenneth Davis — Burlington, N. C.
A.B., Elon College, 1941.

Rock, William Alfred, Jr. — Lewisville, N. C.
A.B., Wofford College, 1941.

Stevenson, Linwood Jennings — Montross, Va.
A.B., Emory and Henry College, 1941.

Sturtevant, William Lyons — Norfolk, Va.
A.B., Randolph-Macon College, 1939.

Ware, Lee Wilson — Jerome, Ariz.
A.B., Hendrix College, 1942.

Wellons, Albert Wilson — Morganton, N. C.
A.B., Lenoir-Rhyne College, 1940.

MIDDLE YEAR

Ausley, Paul Kenneth — Franklinville, N. C.
B.S., Florida Southern College, 1942.

Bailey, Ulysses Grant — McComas, W. Va.
A.B., Emory and Henry College, 1943.

Beal, Paul R. — Glenville, W. Va.
A.B., Morris Harvey College, 1942.

Belcher, Arnold Dwane — Hinton, W. Va.
A.B., Emory and Henry College, 1942.

Blake, Frank William — Milton, W. Va.
A.B., West Virginia Wesleyan College, 1942.

Booth, Robert Irvin — Danville, Va.
A.B., University of Richmond, 1932.

Brickhouse, Ernest Fielding — Norfolk, Va.
A.B., Elon College, 1941.

Brinson, John Clinton — Owensboro, Ky.
A.B., Kentucky Wesleyan College, 1942.

Broadhead, Edward Hall — Durham, N. C.
A.B., Denison University, 1931;
A.M., Duke University, 1933;
M.Mus., University of Michigan, 1939.

Byrum, Roy Delbert A.B., High Point College, 1941.	Charlotte, N. C.
Cooke, Jack Homer A.B., Lenoir-Rhyne College, 1942.	Maiden, N. C.
Dalton, George Willie A.B., High Point College, 1943.	Lewisville, N. C.
Dennis, Paul Martin A.B., Wake Forest College, 1943.	Mt. Gilead, N. C.
Ehlhardt, George Brinkmann A.B., John B. Stetson University, 1938.	St. Louis, Mo.
Everett, Caleb Roy, Jr. A.B., Randolph-Macon College, 1942.	Newsoms, Va.
Ford, Jesse Emerson, Jr. A.B., Wofford College, 1941.	Orangeburg, S. C.
Fridley, Robert Daniel A.B., Randolph-Macon College, 1942.	Check, Va.
Fuqua, Robert Meek A.B., Duke University, 1943.	Bluefield, W. Va.
Greene, Franklin William A.B., Baker University, 1942.	St. Louis, Mo.
Hamm, John Madison A.B., High Point College, 1942.	Tobaccoville, N. C.
Harbuck, George Welcome B.S., University of Houston, 1938.	Timpson, Tex.
Jackson, Lester Polk, Jr. A.B., Texas College of Mines, 1942.	El Paso, Tex.
Jolly, Joseph Ralph A.B., Birmingham-Southern College, 1942.	Tallassee, Ala.
Jones, Haniel A.B., Millsaps College, 1942.	Phenix City, Ala.
Jones, Murray Hughlon A.B., Teachers College of Kansas City, 1942.	Kansas City, Mo.
Lowder, John Albert A.B., High Point College, 1942.	Mocksville, N. C.
McCarver, Clyde Gay A.B., University of Georgia, 1942.	Vidette, Ga.
McGinnis, James William A.B., Guilford College, 1942.	Salisbury, N. C.
Moore, Jack Warren A.B., Olivet College, 1934.	Greensboro, N. C.
Needham, George Harlan A.B., High Point College, 1941.	Charlotte, N. C.
Perry, Charles Streamburg A.B., Kentucky Wesleyan College, 1942.	Paintsville, Ky.
Polk, Charles A.B., Wofford College, 1942.	Varnville, S. C.
Preston, Norman G., Jr. B.S., Louisiana State University, 1940.	Shreveport, La.
Purcell, Eugene George, Jr. A.B., Duke University, 1942.	Erwin, N. C.
Ray, Milton Undrel A.B., West Virginia Wesleyan College, 1942.	Cambridge, Md.
Ridenhour, Henry Isley A.B., High Point College, 1942.	Seagrove, N. C.
Ritchie, Adam Greig Guilford College, 1944.	Burlington, N. C.
Sales, Reames Hawthorne A.B., Hendrix College, 1942.	Forrest City, Ark.
Sharpe, Charles Cleveland, Jr. A.B., High Point College, 1940.	Greensboro, N. C.

Tucker, Roger Wilkins — Madison, N. C.
A.B., High Point College, 1943.

Turner, Archer Rudder — Lynchburg, Va.
A.B., Lynchburg College, 1942.

Vereen, LaFon Carpenter — Latta, S. C.
B.S., Clemson College, 1941.

Waugh, Ray Paschal — Hiddenite, N. C.
A.B., Lenoir-Rhyne College, 1942.

Williams, Harley Morrison — Salisbury, N. C.
A.B., High Point College, 1942.

JUNIOR YEAR

Adamson, Malcolm Monroe — Goodwater, Ala.
A.B., Athens College, 1943.

Atkeison, Gordon Rush — Mobile, Ala.
A.B., Birmingham-Southern College, 1939.

Barnes, Edwin Edward — Licking, Mo.
A.B., Southwest Missouri State Teachers College, 1943.

Belk, Harry Clinton — Lake City, S. C.
A.B., Wofford College, 1943.

Bostick, Joseph Kent — Raleigh, N. C.
A.B., High Point College, 1944.

Bowers, Daniel P. Sayler — Waynesboro, Pa.
A.B., Franklin and Marshall College, 1943.

Bradshaw, Annie Eloise — Portsmouth, Va.
A.B., Randolph-Macon Woman's College, 1908;
M.A., Peabody College, 1916.

Bull, Robert Jehu — Norfolk, Va.
A.B., Randolph-Macon College, 1943.

Cline, John Maxwell — Durham, N. C.
A.B., Duke University, 1943.

Cochran, James Edgar — Kannapolis, N. C.
A.B., Wofford College, 1943.

Cofer, Gilbert Francis — Alderson, W. Va.
A.B., Emory and Henry College, 1943.

Crouse, Kenneth Dewey — Lexington, N. C.
A.B., High Point College, 1943.

Daniel, Wilbon Harrison — Lynchburg, Va.
A.B., Lynchburg College, 1944.

Dennis, Arthur Williams — Nassawadox, Va.
A.B., West Virginia Wesleyan College, 1943.

Durham, Donald William — Reidsville, N. C.
A.B., Union College, 1943.

Edens, Allen Cleveland, Jr. — Durham, N. C.
A.B., Florida Southern College, 1943.

Edwards, John Paul — Clinton, N. C.
A.B., Duke University, 1944.

Elrod, Elton Welborn — Palestine, Tex.
A.B., Southwestern University, 1943.

Fortune, James Robertson — Durham, N. C.
B.S., North Carolina State College, 1935.

Fowler, Francis Wiley — Charlotte, N. C.
B.S., Davidson College, 1944.

Gitlin, Emmanuel Moisieyevich — Detroit, Mich.
A.B., Texas Christian University, 1944.

Griffin, Johnson Linwood — Windsor, Va.
A.B., Elon College, 1943.

Harper, George Arthur — Birmingham, Ala.
A.B., Birmingham-Southern College, 1943.

Harrell, Leighton Ernest, Jr. — Hyattsville, Md.
A.B., University of Maryland, 1943.

Hooper, Thomas LeRoy, Jr. — Pittsburgh, Pa.
A.B., Allegheny College, 1943.

Hughes, Miles Preston — Gadsden, Ala.
A.B., University of Alabama, 1943.

Johnson, Carl Anderson — Durham, N. C.
A.B., Wofford College, 1943.

Johnson, Jesse Louis, Jr. — Siler City, N. C.
A.B., High Point College, 1943.

Jones, Norwood Lee — Clayton, N. C.
A.B., High Point College, 1944.

Lipe, Godfrey Frederick — Durham, N. C.
A.B., Wake Forest College, 1943.

McCleskey, Walter Scott — Waycross, Ga.
A.B., Emory University, 1942.

McCoy, Charles Sherwood — Laurinburg, N. C.
A.B., University of North Carolina, 1943.

McRae, William Vogel — Durham, N. C.
A.B., Duke University, 1908.

Madren, Weldon Thomas — Burlington, N. C.
A.B., Elon College, 1943.

Oglesby, Glynn Aubrey — Selma, Ala.
A.B., Wofford College, 1943.

Peery, John Franklin — Fort Worth, Tex.
A.B., Southern Methodist University, 1943.

Perkins, Theodore Edison — Goldsboro, N. C.
B.S., Western Carolina Teachers College, 1939.

Petteway, Warren Bernard — Kinston, N. C.
A.B., Wofford College, 1941.

Pfisterer, Fred Russell — Louisville, Ky.
A.B., Kentucky Wesleyan College, 1943.

Risinger, Melvin Smith — Moundsville, W. Va.
A.B., West Virginia Wesleyan College, 1943.

Rowland, Ray Marion — Jonesboro, Tenn.
B.S., East Tennessee State College, 1943.

Rutledge, Thomas Edgar, Jr. — Childress, Tex.
A.B., Trinity University, 1943.

Sampselle, William DeVries — Mt. Rainier, Md.
A.B., University of Maryland, 1943.

Smiley, Donald Gilbert — Fresno, Calif.
A.B., Fresno State College, 1943.

Stanfield, Claude Edwin — Sarasota, Fla.
A.B., Florida Southern College, 1943.

Swink, Ray Franklin — Lexington, N. C.
A.B., High Point College, 1944.

Townsend, Harold Lee — Fayetteville, N. C.
A.B., Wake Forest College, 1943.

Wells, Robert Newton — Manning, S. C.
A.B., Wofford College, 1943.

White, Charles Denny — Durham, N. C.
A.B., High Point College, 1939.

Wynn, Coy Wilton — Sicily Island, La.
A.B., Louisiana College, 1941;
M.A., Louisiana State University, 1942.

Young, Alvin Clyde — Buffalo, W. Va.
A.B., Concord College, 1943.

THE SCHOOL OF LAW

FIRST YEAR

Aiken, Earle Lee A.B., Lenoir-Rhyne College, 1939.	Canton, N. C.
Anderson, Roy Martin Purdue University, 1939-41; Duke University, 1941-43.	Hempstead, N. Y.
Chase, Elizabeth B.S., Cornell University, 1942.	Pittsfield, Mass.
Fogle, Eileen A.B., Marietta College, 1943.	Marietta, Ohio
Friedberg, Edwin Peter A.B., Duke University, 1943.	Atlantic City, N. J.
Greene, James Harrison A.B., Duke University, 1943.	Syracuse, N. Y.
Grossenheider, Joseph Warren A.B., Duke University, 1943.	Webster Groves, Mo.
Long, Richard Duke University, 1940-43.	Roxboro, N. C.
McDermott, Roger Dennis A.B., William and Mary College; M.Ed., University of Maryland, 1941.	Palm Beach, Fla.
Nolen, John Henry A.B., Wofford College, 1940.	Spartanburg, S. C.
Parker, Elizabeth George Duke University, 1941-42; University of Arizona, 1942-43.	Chevy Chase, Md.
Powell, Frank McKinnon A.B., Davidson College, 1942.	Whiteville, N. C.
Rawlins, Wiley Harry A.B., Trinity University, 1943.	Hutchins, Tex.
Sanger, Julian Douglas B.A., University of Richmond, 1940.	Richmond, Va.
Silverberg, Jerroll Bucknell University, 1941-43.	New Canaan, Conn.
Snyder, Beverly A.B., Duke University, 1944.	Patchogue, N. Y.
Speziale, John Albert A.B., Duke University, 1943.	Torrington, Conn.
Wilson, Valmore LeBay B.S., Clemson Agricultural College, 1930.	Fairfax, S. C.

SECOND YEAR

Collings, Hazel Cover B.S., The University of Georgia, 1942.	Clemson, S. C.
Dalton, Craig Gates Duke University, 1940-42.	Toledo, Ohio
Fulk, Frances A.B., Duke University, 1944.	Spencer, N. C.
Hawkins, Jackson DeWeese Duke University, 1940-42.	Braintree, Mass.
May, Jacqueline A.B., Duke University, 1942; University of Florida, 1942-43.	Lakeland, Fla.
Morgan, Viotti Eugene Mercer University, 1940-42; School of Law, Mercer University, 1942-43.	Cordele, Ga.
Primm, Arthur Weeks Duke University, 1940-42.	Miami, Fla.
Strine, Leroy Tremaine A.B., University of Southern California, 1940.	York, Pa.

THIRD YEAR

Bronson, John William — Gibsonburg, Ohio
B.S., A.B., Bowling Green State University, 1942.

Esgain, Albert James — Bremen, Ohio
B.S., Ohio State University, 1936; M.A., 1937.

Meyerson, Gerald — Charleston, S. C.
The Citadel, 1938-40;
Duke University, 1940-41.

Monterosso, Anthony — New Britain, Conn.
Ohio University, 1939-41; University of Chicago, 1941-43;
University of Chicago School of Law, 1941-43, A.B. 1943,
University of Chicago.

Parker, Jane Agnes — Smithfield, N. C.
A.B., The Woman's College of the University of North Carolina, 1941.

Richardson, William — Honolulu, Hawaii
A.B., University of Hawaii, 1941;
University of Cincinnati School of Law, 1941-43.

Sellers, Frank Edwin — Norfolk, Va.
A.B., Duke University, 1942.

Taub, Melvin Sanford — Passaic, N. J.
Randolph-Macon College, 1940-42.

Whitmire, Lee Elmer, Jr. — Ellwood City, Pa.
A.B., Geneva College, 1941.

UNCLASSIFIED

Maurer, David Eugene — Ft. Lauderdale, Fla.
The University of Florida, 1941-43.

THE SCHOOL OF MEDICINE

January 3, 1944 – September 23, 1944

FIRST YEAR

Name and Preparation — *Home Address*

Samuel Sheridan Ambrose, Jr. (N) ..... Jacksonville, N. C.
Duke University.

Charles Claiborne Blackwell, Jr. (M) ..... Wilmette, Ill.
University of Virginia;
Washington and Lee University;
Northwestern University.

Ben Vaughan Branscomb (N) ..... Durham, N. C
Duke University.

William Lester Brooks, Jr. (N) ..... Charlotte, N. C.
Princeton University.

James Robert Browning (N) ..... Windber, Pa.
Duke University.

John Ralph Burgess, Jr. (A) ..... Missoula, Mont.
Montana State University.

James Ryan Chandler (A) ..... Daytona Beach, Fla.
Duke University.

Sherman Dockray Clark (N) ..... New York, N. Y.
Duke University.

Thomas Carlaw Clifford (A) ..... Shipman, Va.
Yale University.

Raphael Woodward Coonrad (N) ..... Evans City, Pa.
Davidson College.

(A) Indicates Private First Class in the Army Specialized Training Program. (N) Indicates Apprentice Seaman in the Navy V-12(S) Program. (U) Indicates commission as Assistant Surgeon in the U.S.P.H.S. Reserve. (V) indicates commission as Ensign H-V(P), U.S.N.R. (M) Indicates commission as Second Lieutenant, Medical Administrative Corps, A.U.S.

Name and Preparation — *Home Address*

Henry Hitt Crane, Jr. ..... Detroit, Mich.
Duke University.

Thomas Barker Dameron, Jr. (N) ..... Goldsboro, N. C.
The Citadel;
Duke University;
University of North Carolina.

Atala Jane Scudder Davison ..... Durham, N. C.
Barnard College;
Duke University;
Swarthmore College.

James Charles Dawson, Jr. (N) ..... San Francisco, Calif.
San Francisco Junior College;
University of San Francisco.

Albert W. Farley, Jr. (A) ..... Bay City, Mich.
University of Michigan;
Duke University.

Blake Fawcett (N) ..... Alderson, W. Va.
Duke University.

Tom Bruce Ferguson (A) ..... Tulsa, Okla.
Duke University.

Paul Gardner Fillmore (A) ..... Provo, Utah
Brigham Young University.

Herman Field Froeb (A) ..... Forest Hills, N. Y.
Princeton University.

Joseph Platt Gutstadt (N) ..... Chicago, Ill.
University of Chicago;
Duke University.

Rufus Roberts Hambright (N) ..... Grover, N. C.
Mars Hill Junior College;
Duke University.

Robert Slotterback Keller (N) ..... Lavelle, Pa.
Duke University.

Dwight Talmadge Kernodle (A) ..... Elon College, N. C.
Elon College.

William Arnold Lambeth, Jr. (N) ..... Asheville, N. C.
Duke University.

George Festus Latimore, Jr. (N) ..... Kings Mountain, N. C.
Duke University.

Robert Oscar Lipe (N) ..... Albemarle, N. C.
Duke University.

Donald Stanley Littman (N) ..... Sunnyside, L. I., N. Y.
Duke University.

Frank Henry Longino (N) ..... Texarkana, Ark.
Duke University.

Ralph Taylor McCauley (A) ..... Roderfield, W. Va.
Virginia Polytechnic Institute.

John Marshall McCoy (N) ..... Charlotte, N. C.
Erskine College.

Robert Ligon McWhorter, Jr. (N) ..... Athens, Ga.
University of Georgia;
Emory University.

Robert Pickens Marshall (N) ..... Washington, D. C.
Duke University.

John Edward Masterson (A) ..... University Heights, Ohio
Adelbert College of Western Reserve University.

(A) Indicates Private First Class in the Army Specialized Training Program. (N) Indicates Apprentice Seaman in the Navy V-12(S) Program. (U) Indicates commission as Assistant Surgeon in the U.S.P.H.S. Reserve. (V) Indicates commission as Ensign H-V(P), U.S.N.R. (M) Indicates commission as Second Lieutenant, Medical Administrative Corps, A.U.S.

Name and Preparation	*Home Address*
William Thomas Mayer (A) *Adelbert College of Western Reserve University.*	Shelby, Ohio
Loren Valmore Miller (N) *Concordia Collegiate Institute;* *Duke University.*	Yonkers, N. Y.
John Robert Morris (N) *Duke University.*	Youngstown, Ohio
Donald Robertson Mundie (N) *Duke University.*	Kenmore, N. Y.
William Parry Murphy, Jr. *Harvard College.*	Brookline, Mass.
Henry Hale Nicholson, Jr. (A) *Duke University.*	Statesville, N. C.
Sherman Homer Pace (N) *Duke University.*	St. Petersburg, Fla.
Grover Smith Patterson (N) *Catawba College.*	Kannapolis, N. C.
Robert Franklin Poole, Jr. (A) *The Clemson Agricultural College.*	Clemson, S. C.
Rhea Sutphen Preston (A) *Davidson College.*	Pontotoc, Miss.
William Watkins Pryor (A) *Wake Forest College.*	Oxford, N. C.
Frederick Ramsay Ritzinger, Jr. (N) *University of Washington.*	St. Paul, Minn.
Harry Campbell Sammons *Marietta College.*	Marietta, Ohio
Guy Phillip Sharpe, Jr. (N) *Tulane University;* *University of Colorado;* *Vanderbilt University.*	Tchula, Miss.
Kenneth Sihler Shepard (A) *Duke University.*	Chicago, Ill.
James Loughrey Smeltzer (N) *Western Reserve University;* *Duke University.*	Youngstown, Ohio
Ernest Wendell Smith (N) *Duke University.*	Charlotte, N. C.
Stuart Cameron Smith (A) *Duke University.*	Staten Island, N. Y.
Dorothy Dair Snyder *Duke University.*	Dover, Ohio
LeRoy Everett Talcott, Jr. (N) *Princeton University.*	Hartford, Conn.
Allen Taylor (A) *Duke University.*	Greenville, N. C.
James Robert Teabeaut, II (A) *Duke University.*	Fayetteville, N. C.
Jack Lamkin Teasley (N) *Duke University.*	St. Albans, W. Va.
Robert Hicks Thompson (N) *Clemson College;* *Duke University.*	Dublin, Ga.
William West Thompson (A) *Wake Forest College;* *Duke University.*	Hallsboro, N. C.

(A) Indicates Private First Class in the Army Specialized Training Program. (N) Indicates Apprentice Seaman in the Navy V-12(S) Program. (U) Indicates commission as Assistant Surgeon in the U.S.P.H.S. Reserve. (V) Indicates commission as Ensign H-V(P), U.S.N.R. (M) Indicates commission as Second Lieutenant, Medical Administrative Corps, A.U.S.

Name and Preparation — *Home Address*

Willis Herbert Thornburg (A) ..... New York, N. Y.
Duke University.

Silas Owens Thorne, Jr. (N) ..... Charlotte, N. C.
Duke University.

Frederick Cleverly Vogell (A) ..... Wilmore, Ky.
Asbury College.

William Charles Wansker (N) ..... Macon, Ga.
Duke University.

Joseph Major Ward (N) ..... Robersonville, N. C.
University of North Carolina.

Norma Ware ..... Macon, Ga.
Duke University.

Harry Leon Wechsler (N) ..... McKeesport, Pa.
Duke University.

Milton Weinberg, Jr. (N) ..... Sumter, S. C.
Duke University.

Robert Cooper Welsh (N) ..... Miami, Fla.
Duke University.

Elmer Stone West, Jr. (N) ..... Mayslick, Ky.
Cumberland Junior College;
University of Richmond.

David Craig White (A) ..... Englewood, N. J.
Duke University.

Lawrence Jack Wilchins (A) ..... Cincinnati, Ohio
Duke University.

Roger Davis Williams (A) ..... Charlotte, N. C.
Duke University.

Leo Hughes Wilson, Jr. (N) ..... Bradenton, Fla.
University of Florida;
Duke University.

William Preston Wilson (A) ..... Durham, N. C.
Campbell Junior College;
Duke University.

John Lemuel Wooten (A) ..... Greenville, N. C.
Duke University.

Richard Nickles Wrenn (N) ..... Anderson, S. C.
Duke University.

John Engler Zeliff, Jr. (N) ..... Youngsville, Pa.
Pennsylvania State College;
Duke University.

SECOND YEAR

Harry Sholar Allen, Jr. (A) ..... Florence, S. C.
Davidson College.

Clarence Leonidas Anderson (A) ..... Tampa, Fla.
Davidson College.

Reid Hogan Anderson (A) ..... Pullman, Wash.
State College of Washington.

Robert Harper Anderson (A) ..... Wilson, N. C.
Duke University.

Dorothy Clarke Armstrong ..... Port Arthur, Ontario, Canada
Port Arthur Collegiate;
Tufts College.

James Guernsey Bassett (A) ..... Port Huron, Mich.
Port Huron Junior College;
University of Michigan.

(A) Indicates Private First Class in the Army Specialized Training Program. (N) Indicates Apprentice Seaman in the Navy V-12(S) Program. (U) Indicates commission as Assistant Surgeon in the U.S.P.H.S. Reserve. (V) Indicates commission as Ensign H-V(P), U.S.N.R. (M) Indicates commission as Second Lieutenant, Medical Administrative Corps, A.U.S.

Name and Preparation — *Home Address*

Ritchie Hugh Belser (A) ..... Columbia, S. C.
The Citadel.

Alfred Seymour Berne (A) ..... Woodhaven, N. Y.
Duke University.

Richard Titsworth Binford (U) ..... Marion, N. C.
Guilford College;
University of North Carolina.

Richard Calvin Bishop (N) ..... St. Petersburg, Fla.
Duke University.

Alexander White Boone, Jr. (A) ..... Pennsgrove, N. J.
Duke University.

Paul Brazeau (N) ..... St. Petersburg, Fla.
St. Petersburg Junior College;
Vanderbilt University;
Duke University.

William Richard Brink (A) ..... Williamsport, Pa.
Williamsport Dickinson Junior College;
Pennsylvania State College;
Harvard University.

Thomas Ray Broadbent (A) ..... Heber, Utah
Brigham Young University.

John Burton Bryan (N) ..... St. Petersburg, Fla.
St. Petersburg Junior College;
Duke University.

Frank Highsmith Campbell (N) ..... Durham, N. C.
Duke University.

Ralph Ingersoll Cottle, Jr. (N) ..... Warren, Ohio
Duke University.

Robert Edwin Crompton (A) ..... Toronto, Ontario, Canada
University of Toronto;
University of Toronto Medical School, 1940-1942.

John Murdoch Crowell (A) ..... Chattanooga, Tenn.
University of Chattanooga.

Frank Willard Davis, Jr. (A) ..... Biltmore, N. C.
Duke University.

John Wesley DeReamer (A) ..... Morrisville, Pa.
Duke University.

Elaine G. Fichter ..... West Hazleton, Pa.
Maryville College.

Zenas Waldo Ford, Jr. (A) ..... Fayetteville, Ark.
University of Arkansas.

Saul Arnold Frankel (A) ..... Woodmere, L. I., N. Y.
Yale University.

Walter Houseal Goggans (A) ..... Newberry, S. C.
Clemson College.

James Boyd Golden (N) ..... Greenfield, Mass.
Duke University.

Everett Richard Harrell, Jr. (N) ..... Birmingham, Mich.
Duke University;
Ohio Wesleyan.

Edward Gustavus Haskell, Jr. (N) ..... Jacksonville, Fla.
The Citadel.

Charles Tracy Henderson (A) ..... Morris, Ind.
Duke University.

(A) Indicates Private First Class in the Army Specialized Training Program. (N) Indicates Apprentice Seaman in the Navy V-12(S) Program. (U) Indicates commission as Assistant Surgeon in the U.S.P.H.S. Reserve. (V) Indicates commission as Ensign H-V(P), U.S.N.R. (M) Indicates commission as Second Lieutenant, Medical Administrative Corps, A.U.S.

Name and Preparation — *Home Address*

William N. Henderson (A) ..... Maplewood, N. J.
New York University;
Duke University.

Thomas Alfred Hockman (N) ..... Kalamazoo, Mich.
University of Cincinnati;
Duke University.

David Smith Hubbell (A) ..... Durham, N. C.
Duke University.

Carlos Lee Hudson (A) ..... Urbana, Ill.
University of Illinois.

Ralph Herlinger Jamison (N) ..... Warren, Ohio
Western Reserve University;
Duke University.

Joseph Kempton Jones (N) ..... Salisbury, N. C.
Duke University.

Thomas Francis Kelley (A) ..... Waltham, Mass.
Massachusetts State College;
University of California.

Grace P. Kerby ..... Miami, Fla.
Florida State College for Women;
Johns Hopkins University.

Henry Irving Kohn (A) ..... Durham, N. C.
Dartmouth College;
Harvard University.

Ethen Sease Koon, Jr. (N) ..... Asheville, N. C.
Biltmore College;
Mars Hill College;
Duke University.

Duval Holtzclaw Koonce (A) ..... Chadbourn, N. C.
Duke University.

Thomas Howard Lewis (N) ..... Seattle, Wash.
University of Washington.

Carmine Keith Lyons (N) ..... Charleston, W. Va.
Duke University.

Walter Anderson McLeod, Jr. (N) ..... St. Petersburg, Fla.
St. Petersburg Junior College;
Duke University.

John Guy Maines, Jr. (N) ..... Ossining, N. Y.
Duke University.

John Cohen Maxwell (N) ..... New York, N. Y.
Duke University.

Paul Lanier Ogburn (A) ..... Charlotte, N. C.
Canadian Academy;
Duke University.

Harold Monroe Peacock (N) ..... Benson, N. C.
University of North Carolina.

Robert Lloyd Pinck (A) ..... Paterson, N. J.
Washington and Lee University.

Ralph Waldo Powell (N) ..... Avondale Estates, Ga.
Duke University.

James Warren Rogers (N) ..... Cleveland Heights, Ohio
University of Georgia.

William Evans Rowe, Jr. (A) ..... Austin, Tex.
University of Texas.

Evan Weible Schear (A) ..... Westerville, Ohio
Otterbein College.

(A) Indicates Private First Class in the Army Specialized Training Program. (N) Indicates Apprentice Seaman in the Navy V-12(S) Program. (U) Indicates commission as Assistant Surgeon in the U.S.P.H.S. Reserve. (V) Indicates commission as Ensign H-V(P), U.S.N.R. (M) Indicates commission as Second Lieutenant, Medical Administrative Corps, A.U.S.

Name and Preparation	*Home Address*
John Edgar Scheid, Jr. (N) *Westminster College.*	Brackenridge, Pa.
Guy Walter Schlaseman (A) *Duke University.*	Lansford, Pa.
Paul Henry Sherman (N) *Alabama Polytechnic Institute;* *Duke University.*	Baltimore, Md.
Alwyn Abraham Shugerman (A) *Birmingham-Southern College;* *University of Alabama.*	Birmingham, Ala.
Homer Alden Sieber (A) *Roanoke College.*	Roanoke, Va.
John Delabarre Staub (N) *Rice Institute;* *Texas University.*	Houston, Tex.
Richard Marks Stitt (N) *Pennsylvania State College;* *Denison University.*	Warren, Ohio
Thomas Bayton Suiter, Jr. (A) *Duke University.*	Rocky Mount, N. C.
Richard Earl Symmonds (N) *Central College.*	Memphis, Mo.
Lloyd McCully Taylor (N) *Maryville College.*	Maryville, Tenn.
James Richard Thistlethwaite (A) *University of Virginia.*	Richmond, Va.
Frederick Arrowood Thompson, Jr. (A) *University of North Carolina.*	Lenoir, N. C.
Robert Gordon Thompson (A) *Duke University.*	Durham, N. C.
Malcolm Paul Tyor (N) *University of Wisconsin.*	Jamaica, N. Y.
E. Henry Valentine *Mercer University.*	Macon, Ga.
Joseph Emmett Walthall, III (A) *Greenbrier Military School;* *West Virginia University.*	Athens, W. Va.
Lewis William Wannamaker (A) *Emory University.*	St. Matthews, S. C.
E. Charles Wayland (N) *Central College.*	Piedmont, Mo.
Bailey Daniel Webb *Greensboro College;* *University of North Carolina.*	Oxford, N. C.
James Foster Williamson (N) *Clemson College.*	Columbia, S. C.
Dan Hall Willoughby (A) *University of Mississippi;* *Duke University.*	Jackson, Miss.
John Cummings Withington (A) *Duke University.*	Savannah, Ga.
Frank Reece Wrenn (N) *Duke University.*	Anderson, S. C.
Jack Dunn Wycoff (N) *The Citadel.*	Springfield, Ky.

(A) Indicates Private First Class in the Army Specialized Training Program. (N) Indicates Apprentice Seaman in the Navy V-12(S) Program. (U) Indicates commission as Assistant Surgeon in the U.S.P.H.S. Reserve. (V) Indicates commission as Ensign H-V(P), U.S.N.R. (M) Indicates commission as Second Lieutenant, Medical Administrative Corps, A.U.S.

JUNIOR YEAR

Name and Preparation — *Home Address*

Byron Michel Bloor (N) ..... Moscow, Idaho
University of Idaho;
University of Washington;
University of Idaho.

Richard Edwin Boger (N) ..... Charlotte, N. C
Duke University.

Jay Olsen Brinton (A) ..... Salt Lake City, Utah
Westminster Junior College;
Eastern Kentucky State Teachers College;
University of Idaho.

William Armstead Brooks, III (A) ..... Dallas, Tex.
Duke University.

Walter Jordan Brower (A) ..... New York, N. Y.
University of Alabama.

Carrel Mayo Caudill (A) ..... Pearisburg, Va.
Duke University.

Arthur Edward DeNio, Jr. (A) ..... Detroit, Mich.
Duke University.

Hugh Dortch, Jr. (A) ..... Goldsboro, N. C.
University of North Carolina;
University of North Carolina Medical School, 1942-1943.

Elizabeth Jean Dubs ..... Durham, N. C.
Duke University.

Adolphus William Dunn (N) ..... Leaksville, N. C.
Wake Forest College.

Ralph Gerald Eaker (A) ..... Lawndale, N. C.
Wofford College.

John Richard Emlet (N) ..... Hanover, Pa.
Dickinson College.

James Edward Farley, Jr. (M) ..... Durham, N. C.
Duke University.

Charles Shirey Flynn (A) ..... Bluefield, W. Va.
Bluefield Junior College;
Duke University.

Frederick Clare Hanson (N) ..... Geneva, Ill.
University of Illinois;
University of Wisconsin.

Benedict Harrow (A) ..... Pittsfield, Mass.
Duke University.

Willis Holland Hodges, Jr. (A) ..... Columbus, Ohio
Ohio State University.

Bruce Charles Holman (N) ..... Bainbridge, N. Y.
Hamilton College;
Duke University.

Earl Pendleton Holt, Jr. (A) ..... Oak Ridge, N. C.
Oak Ridge Military Institute;
Duke University.

Thomas Ruffin Hood (N) ..... Smithfield, N. C.
Mars Hill Junior College;
Duke University.

Louis Moffitt Howell (A) ..... Jacksonville, Fla.
University of Florida.

Beverly N. Jones, Jr. (A) ..... Winston-Salem, N. C.
Virginia Polytechnic Institute.

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Name and Preparation — *Home Address*

Stanley Jay Kallman (A) ..... New York, N. Y.
University of North Carolina.

Seymour Robert Kaplan (N) ..... Brooklyn, N. Y.
Brooklyn College;
Duke University.

Alfred Robert Kessler (N) ..... Astoria, N. Y.
Fordham University.

Victor Henry Knight, Jr. (N) ..... Tampa, Fla.
Duke University.

Emery Thomas Kraycirik (V) ..... Windber, Pa.
Franklin and Marshall Academy;
Lenoir-Rhyne College.

Ullin Whitney Leavell, Jr. (A) ..... Nashville, Tenn.
Vanderbilt University.

Charles William Lewis, Jr. (N) ..... Greensboro, N. C.
Guilford College.

William Figgatt Lovell (N) ..... Raleigh, N. C.
North Carolina State College;
Duke University.

James Dwight Lutz (N) ..... Shelby, N. C.
Duke University.

John Niel McClure, Jr. (A) ..... Palmetto, Fla.
Duke University.

Hugh McCulloch, Jr. (A) ..... St. Louis, Mo.
Washington and Lee University.

Frank Watt McCune (A) ..... McKeesport, Pa.
Duke University.

John P. McGovern (A) ..... Washington, D. C.
Duke University.

A. Ziegler McPherson (A) ..... Little Rock, Ark.
University of Oklahoma;
University of Arkansas.

James Thompson Metzger (N) ..... Pittsburgh, Pa.
Loomis Institute;
University of Pittsburgh.

Lowell Stephen Miller (N) ..... Asheville, N. C.
Mars Hill College;
Duke University.

Oscar McLendon Mims (N) ..... Florence, S. C.
University of South Carolina.

Thomas Joseph Moore (A) ..... Bronxville, N. Y.
Duke University.

Herbert Leon Newbold, Jr. (A) ..... Newport News, Va.
College of William and Mary;
Duke University.

Richard Milton Paddison (A) ..... Savannah, Ga.
Duke University.

Herbert William Park, III (N) ..... Greensboro, N. C.
Guilford College;
George Washington University;
University of North Carolina;
University of North Carolina School of Medicine, 1942-1943.

Benjamin Jackson Philips, Jr. (A) ..... Jacksonville, Fla.
Davidson College.

Alfred Rowland Pittman, Jr. (N) ..... Lumberton, N. C.
North Carolina State College;
Wake Forest College.

(A) Indicates Private First Class in the Army Specialized Training Program. (N) Indicates Apprentice Seaman in the Navy V-12(S) Program. (U) Indicates commission as Assistant Surgeon in the U.S.P.H.S. Reserve. (V) Indicates commission as Ensign H-V(P), U.S.N.R. (M) Indicates commission as Second Lieutenant, Medical Administrative Corps, A.U.S.

Name and Preparation — *Home Address*

Grover Duckett Poole (N) ..... Raleigh, N. C.
Duke University.

Robert Barclay Ragland (M) ..... Jacksonville, Fla.
Virginia Military Institute;
University of Colorado;
University of Florida.

Clarence Lee Ruffin (A) ..... Tarboro, N. C.
University of North Carolina.

Edwin Robert Ruskin (A) ..... New Rochelle, N. Y.
Duke University.

Robert McCurdy Russell (A) ..... Burgettstown, Pa.
Duke University.

Harold St. John (A) ..... Washington, D. C.
Northwestern University.

William Benjamin Schwartz, Jr. (A) ..... Woodmere, N. Y.
Duke University.

Murray Bernard Sheldon, Jr. (A) ..... Roselle Park, N. J.
Duke University.

Stephen David Smith (A) ..... Rome, Ga.
University of Georgia.

Thoburn Rudolph Snyder, Jr. (N) ..... Mount Pleasant, Pa.
Duke University.

Edward John Stainbrook (M) ..... Durham, N. C.
Allegheny College;
Catholic University;
Duke University.

William Sinclair Stewart, IV (N) ..... Charlotte, N. C.
Duke University.

Wingate Elwood Swain (A) ..... Shallotte, N. C.
Wake Forest College.

Frederick Harvey Taylor (N) ..... High Point, N. C.
Guilford College.

Paul Claytor Thompson (N) ..... Reidsville, N. C.
Duke University.

Bennie Vatz (A) ..... Kinston, N. C.
Eastern Carolina Teachers College;
University of North Carolina.

Carl Marvin Voyles, Jr .(A) ..... Williamsburg, Va.
College of William and Mary.

William Thurman Watkins, Jr. (N) ..... Newport News, Va.
Duke University.

William D. Weber (A) ..... Erie, Pa.
University of Pittsburgh;
Duke University.

Samuel Gould Welborn (A) ..... Lexington, N. C.
Davidson College.

Hayes MacMurry White, Jr. (A) ..... Raleigh, N. C.
Duke University.

Walter Barron Withers (A) ..... Chapel Hill, N. C.
University of North Carolina.

Robert Clifford Wulfman (N) ..... Huntington, W. Va.
Marshall College.

SENIOR YEAR

Robert James Atwell ..... Chillicothe, Ohio
Duke University.

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Name and Preparation — *Home Address*

Horace Mitchell Baker, Jr. (M) ..... Lumberton, N. C.
University of North Carolina.

Frank Louis Beckel (M) ..... Huntingdon, Pa.
Duke University.

Walter Russell Benson (A) ..... Tamaqua, Pa.
Duke University.

Charles Marvin Blackburn (M) ..... Ada, Okla.
University of Oklahoma.

Jack Holland Boatman (N) ..... Okmulgee, Okla.
University of Oklahoma.

Jacob Thompson Brasher, Jr. (N) ..... Milton, N. C.
Lees-McRae College;
Maryville College.

Joseph Dondiego Brenna (A) ..... Trenton, N. J.
Duke University.

Robert Alexander Broome, Jr. (A) ..... Rocky Mount, N. C.
Duke University.

Banks Raleigh Cates, Jr. (N) ..... Charlotte, N. C.
Davidson College;
Duke University.

Robert George Chambers (V) ..... New York, N. Y.
Duke University.

William Alan Chickering (A) ..... Chicago, Ill.
Duke University.

John Pope Collins (A) ..... Blackfoot, Idaho
Duke University.

Richard Grigsby Connar (A) ..... Rutherford, N. J.
Duke University.

Gerald Edwin Cronk (A) ..... Tulsa, Okla.
Tulsa University.

Robert Thomas Cronk (A) ..... Tulsa, Okla.
Tulsa University.

Martin Marc Cummings (A) ..... Glassboro, N. J.
Bucknell University.

Arthur Markham Dalton (A) ..... Toledo, Ohio
Purdue University;
Duke University.

William Hersey Davis, Jr. (A) ..... Louisville, Ky.
Mars Hill College;
Duke University.

William Townsend Davison (A) ..... Durham, N. C.
Yale University.

Carleton Cecil Douglass (M) ..... Newark, Del.
University of Delaware.

Henry Martin Dratz ..... Lynbrook, N. Y.
Duke University.

Stuart Reiley Ducker, Jr. (N) ..... Fort Thomas, Ky.
Yale University.

Howard Casey Duckett, Jr. (A) ..... Durham, N. C.
Emory University;
Duke University.

Ernest Goodall Edwards, Jr. (N) ..... Columbia, S. C.
Clemson College.

William Preston Featherstone (A) ..... Durham, N. C.
Duke University.

(A) Indicates Private First Class in the Army Specialized Training Program. (N) Indicates Apprentice Seaman in the Navy V-12(S) Program. (U) Indicates commission as Assistant Surgeon in the U.S.P.H.S. Reserve. (V) Indicates commission as Ensign H-V(P), U.S.N.R. (M) Indicates commission as Second Lieutenant, Medical Administrative Corps, A.U.S.

Name and Preparation — *Home Address*

Bernard Frank Joseph Fetter (M) ..... Baltimore, Md.
Johns Hopkins University.

William Joseph Edward Fetter (V) ..... Baltimore, Md.
Johns Hopkins University.

Dorothy Grace Finley ..... Decatur, Ala.
University of Alabama;
University of Alabama School of Medicine, 1941-1942.

George Francis Fordham (M) ..... Powellton, W. Va.
Georgetown University.

Richard Edmond Lee Fowler (A) ..... Marion, Miss.
University of Mississippi;
University of Mississippi School of Medicine, 1942-1943.

Truett Hollis Frazier (N) ..... Asheboro, N. C
Mars Hill College;
Duke University.

Anneva French ..... Bristol, Va.
King College.

Wilton George Fritz (A) ..... Ridgewood, N. J.
Duke University.

Marvin McCall Gibson (A) ..... Douglas, Ga.
University of Georgia;
Duke University.

Walter Gothard Gobbel, Jr. (N) ..... Suffolk, Va.
Duke University.

Mary Goodyear ..... Manchester, England
University of Manchester Medical School, 1939-1943.

Alfred Edward Gras (N) ..... Cambridge, Mass.
Harvard College.

William Wills Green, Jr. (A) ..... Tarboro, N. C.
University of North Carolina.

Nannie Marguerite Hainje ..... Brewton, Ala.
Ward-Belmont College;
Mount Holyoke College.

James Lawrence Hansen (A) ..... Salt Lake City, Utah
University of Utah.

Francis Williams Hare, Jr. (A) ..... Monroeville, Ala.
Birmingham-Southern College;
University of Colorado.

Robert Pinckard Henderson (M) ..... Kalamazoo, Mich.
Kalamazoo College;
Western State Teachers College.

George Manley Himadi (N) ..... Ridgewood, N. J.
Duke University.

Lester Jerome Honig (A) ..... New York, N. Y.
Harvard College.

Claude Gibson Hooten, Jr. (A) ..... Lynchburg, Va.
University of Richmond.

James Jackson Hutson (N) ..... Miami, Fla.
Duke University.

Charles Warren Irvin, Jr. (A) ..... Columbia, S. C.
University of South Carolina;
Duke University.

Karl Crawford Jonas (N) ..... Marion, N. C.
Davidson College.

(A) Indicates Private First Class in the Army Specialized Training Program. (N) Indicates Apprentice Seaman in the Navy V-12(S) Program. (U) Indicates commission as Assistant Surgeon in the U.S.P.H.S. Reserve. (V) Indicates commission as Ensign H-V(P), U.S.N.R. (M) Indicates commission as Second Lieutenant, Medical Administrative Corps, A.U.S.

Name and Preparation — *Home Address*

Paxton Lane Jones (A) ..... North Benton, Ohio
Youngstown College;
Duke University.

George Wallace Kernodle (A) ..... Elon College, N. C.
Elon College.

Robert Bruce Kubek ..... Cleveland Heights, Ohio
Duke University.

John Fuller Lawson (A) ..... Erwin, Tenn.
Duke University.

George Welch Liles (N) ..... Charlotte, N. C.
Duke University.

Archibald Nock McIntosh (A) ..... Old Fort, N. C.
University of North Carolina.

William Wailes Magruder (A) ..... Starkville, Miss.
Mississippi State College.

Tom Lewis Martin (M) ..... Goldville, S. C.
Washington and Lee University.

George Harold Massey (A) ..... Quincy, Fla.
University of Florida.

Walter Sidney Matthews, Jr. (N) ..... Danville, Va.
Duke University.

James Donaldson Moody ..... East Brady, Pa.
Duke University.

William Clayton Morgan (A) ..... Salisbury, N. C.
Catawba College.

William Gray Murray (N) ..... Greensboro, N. C.
University of North Carolina.

Leonard Palumbo (A) ..... East Orange, N. J.
Duke University.

Neal Copeland Perkins (N) ..... Grand Forks, N. D.
University of North Dakota;
University of North Dakota School of Medicine, 1941-1943.

Rex Beach Perkins (N) ..... New Egypt, N. J.
Duke University.

George Edward Prince ..... Dunn, N. C.
Duke University.

Richard Grover Renner (N) ..... Dayton, Ohio
Miami University.

Henry Lamar Roberts (N) ..... Macon, Ga.
Emory University;
University of Texas;
University of Chicago.

Stanfield Rogers (M) ..... Dyersburg, Tenn.
Duke University.

David Bernard Rulon (N) ..... Phoenixville, Pa.
Duke University.

James Matthew San (A) ..... St. Petersburg, Fla.
Virginia Polytechnic Institute;
Duke University.

Frederick Kenneth Schmidt (N) ..... Plainfield, N. J.
University of North Carolina.

Richard Paul Sexton (N) ..... Winchester, Mass.
Dartmouth College.

Bertram Fairley Townsend (A) ..... Nutley, N. J.
Duke University.

(A) Indicates Private First Class in the Army Specialized Training Program. (N) Indicates Apprentice Seaman in the Navy V-12(S) Program. (U) Indicates commission as Assistant Surgeon in the U.S.P.H.S. Reserve. (V) Indicates commission as Ensign H-V(P), U.S.N.R. (M) Indicates commission as Second Lieutenant, Medical Administrative Corps, A.U.S.

Name and Preparation — *Home Address*

Joseph Warren West (A) ..... St. Petersburg, Fla.
St. Petersburg Junior College;
Duke University.

Robert Jackson Wetmore (A) ..... Durham, N. C.
Duke University.

Beverley Holland White (N) ..... St. Petersburg, Fla.
Emory University.

William Carl Whitesides, Jr. (N) ..... York, S. C.
University of South Carolina;
Duke University.

William Merrill Corry Wilhoit (N) ..... Quincy, Fla.
University of Florida.

John Archibald Yarborough (A) ..... Cary, N. C.
Duke University.

Karl Arden Youngstrom (A) ..... Durham, N. C.
University of Kansas;
University of Kansas Graduate School;
University of Kansas School of Medicine, 1929-1933;
University of Chicago School of Medicine, 1940-1941.

Robert C. Zahn (A) ..... Mandan, N. D.
Montana State University;
University of North Dakota School of Medicine, 1941-1943.

(A) Indicates Private First Class in the Army Specialized Training Program. (N) Indicates Apprentice Seaman in the Navy V-12(S) Program. (U) Indicates commission as Assistant Surgeon in the U.S.P.H.S. Reserve. (V) Indicates commission as Ensign H-V(P), U.S.N.R. (M) Indicates commission as Second Lieutenant, Medical Administrative Corps, A.U.S.

THE SCHOOL OF NURSING

SENIOR YEAR

Name and Preparation — *Home Address*

Allen, Mary Grayson ..... Asheville, N. C.
Ohio University.

Baity, Martha ..... Henderson, N. C.
High Point College.

Baldwin, Olive Douglas ..... Whiteville, N. C.
Peace Junior College.

Barnes, Mary Frances ..... Goldsboro, N. C.
North Carolina State College.

Benbow, Marjorie Long ..... Greensboro, N. C.
Woman's College, University of North Carolina.

Bennett, Anne ..... Greensboro, N. C.
Mitchell Junior College.

Blythe, Charlotte ..... Hendersonville, N. C.
Brevard College.

Churan, Dorothy ..... Reading, Pa.
Pennsylvania State College.

Cobb, Mary Bernice ..... Windsor, N. C.
Chowan Junior College.

Crawley, Hattie Mildred ..... Statesville, N. C.
Mitchell College.

Crowder, Janice ..... Willis Wharf, Va.
Duke University.

Daffin, Margaret Louise ..... Pensacola, Fla.
Florida State College.

D'Amico, Frances Loucetta ..... Elberton, Ga.
University of Georgia.

Doud, Jean ..... Palmetto, Fla.
Florida Southern College.

Dull, Margie ..... Winston-Salem, N. C.
Salem College.

Name and Preparation	*Home Address*
Edwards, Margaret Pearl *Winthrop College.*	Varnville, S. C.
Ezzell, Mary *Mars Hill College.*	Rose Hill, N. C.
Farrior, Ethel *Campbell College.*	Wallace, N. C.
Fleming, Jessamine *Flora Macdonald College.*	Mebane, N. C.
Green, Patricia *Duke University.*	Hillsboro, N. C.
Gunter, Edith	Anderson, S. C.
Halter, Gladys *Lenoir-Rhyne College.*	Hanover, Pa.
Harp, Dorothy L. *Madison College.*	Roanoke, Va.
Hildreth, Lucille *Duke University.*	Durham, N. C.
Hinton, Anna Lee *Averett College.*	Reedville, Va.
Horton, Virginia *University of Mexico.*	Albuquerque, N. M.
House, Martha E. *Campbell College.*	Fayetteville, N. C.
Kincaid, Mary Guinn *University of West Virginia.*	Fire Creek, W. Va.
King, Virginia B. *Winthrop College.*	Lancaster, S. C.
Kresge, Caroline *Stephens Junior College;* *Ohio Wesleyan University.*	Lakewood, Ohio
Lambeth, Evelyn *Randolph-Macon College.*	Danville, Va.
Light, Catherine M. *Winthrop College.*	Alcolu, S. C.
Lucas, Mary Josephine *Redford State Teachers College.*	Simpson, Va.
McCoy, Hazel	New Hill, N. C.
McKenzie, Alma Margaret *Flora Macdonald College.*	Pinehurst, N. C.
McMullen, Fay *Florida Southern College.*	Largo, Fla.
May, Barbara *Lander College.*	Tampa, Fla.
O'Briant, Mary Frances *Duke University.*	Durham, N. C.
Osborne, Lucy	Wallace, N. C.
Pimsner, Leontine I. *Oberlin College.*	Cleveland, Ohio
Ramsey, Ruth Wean *Duke University.*	Charlotte, N. C.
Richardson, Charlotte *University of Connecticut.*	Bloomfield, N. J.
Roane, Cary *Texas State College.*	Fort Knox, Ky.
Robinson, Alice M. *Duke University.*	Sayville, L. I., N. Y.
Sawyer, Margaret J. *Woman's College, University of North Carolina.*	Greensboro, N. C.

Name and Preparation — *Home Address*

Shearin, Mary Lina.....Wilson, N. C.
Atlantic Christian College.

Slocumb, Ruth W.....Goldsboro, N. C.
Greensboro College.

Smith, Betty Irene.....Pinehurst, N. C.
Woman's College, University of North Carolina.

Smith, Mary Alice.....Oakboro, N. C.
Pfeiffer Junior College.

Smith, Ruth Lucille.....Stanley, N. C.
Mars Hill College.

Taylor, Rebekah.....Landis, N. C.
Catawba College.

Tilley, Sophy Malone.....Durham, N. C.

Voss, Jewel.....Walnut Cove, N. C.
Woman's College, University of North Carolina.

Warren, Mary H.....Greensboro, N. C.
Woman's College, University of North Carolina.

White, Evelyn.....Newport News, Va.
Mary Washington College.

JUNIOR YEAR

Adams, Barbara Fay.....Leland, N. C.
Winthrop College.

Banks, Katherine M.....Hickory, N. C.
Duke University.

Barbrey, Betty Jane.....Mount Olive, N. C.
Pfeiffer Junior College.

Bates, Mary Elizabeth.....Winston-Salem, N. C.
Woman's College, University of North Carolina.

Bennett, Virginia Rose.....Weston, W. Va.
West Virginia University.

Bond, Sarah Roberts.....Augusta, Ga.
Georgia State College for Women.

Boring, Dorothy Louise.....Plant City, Fla.
Florida State College.

Braswell, Ruth Davis.....Princeton, N. C.
Louisburg College.

Broadhurst, Jane.....Goldsboro, N. C.
Woman's College, University of North Carolina.

Byrd, Frances Levenia.....Leaksville, N. C.
Averett College.

Byrd, Mary Jane.....Candler, N. C.
Brevard College.

Caviness, Edith Ann.....Lillington, N. C.
Peace College.

Chalker, Mary C.....West Palm Beach, Fla.
Florida State College for Women.

Colley, Myrle.....Wilmington, N. C.
Louisburg College.

Cothran, Jane.....Inman, S. C.
Winthrop College.

Covington, Martha Lee.....Mebane, N. C.
Mitchell College.

Davis, Martha Jane.....Andrews, N. C.
Mars Hill College.

Davis, Pauline.....Nashville, N. C.
Madison College.

Davis, Ruth.....Clinton, S. C.
Presbyterian College.

Name and Preparation	*Home Address*
Davis, Virginia Helen *West Virginia University.*	Uniontown, Pa.
Denny, Janice *Biltmore College.*	Asheville, N. C.
Durner, Hazel Ruth *Duke University.*	Waterbury, Conn.
Fisher, Mary Alice *University of Georgia.*	Clayton, Ga.
Freeman, M. Trudell *Pfeiffer College.*	Ether, N. C.
Galloway, Suzayne *Florida State College for Women.*	Coral Gables, Fla.
Givin, Nelle Brown *University of Alabama.*	Charleston, W. Va.
Gossett, Mary Frances *Winthrop College.*	Stephen, S. C.
Gray, Virginia *Duke University.*	Oyster Bay, N. Y.
Hanna, Mary Chapman *Winthrop College.*	Blacksburg, S. C.
Harlow, Gene Anne *Florida State College for Women.*	Jacksonville, Fla.
Hawes, Ruth Mae *Florida State College for Women.*	Tallahassee, Fla.
Hege, Margaret Elizabeth *Duke University.*	Winston-Salem, N. C.
Hickman, Miriam Poe *Winthrop College.*	Loris, S. C.
Kaiser, Edith *Newberry College.*	Lexington, S. C.
Kime, Selena *Lenoir-Rhyne College.*	Liberty, N. C.
Kirby, Mary Katherine *Asheville College.*	Newry, S. C.
Knowles, Lois Nina *Florida State College for Women.*	Valrico, Fla.
Lawrence, Elizabeth *Duke University.*	Swedesboro, N. J.
Laws, Cicily Anne *Mars Hill College.*	Brantwood, Md.
McElroy, Barbara Anne *Grove City College.*	Latrobe, Pa.
McIntyre, Jean C. *Limestone College.*	Marion, S. C.
Mitchell, Paula Mozelle *University of Alabama.*	Cullman, Ala.
Morrow, Nancy Anne *William and Mary College.*	Shaker Heights, Ohio
Nash, Doris *Temple University.*	Troy, Pa.
Nix, Jean D. *Winthrop College.*	Garnett, S. C.
Reflogal, Jacquelyn *Mary Washington College.*	Clearwater, Fla.
Rhoad, Betty Claire *Winthrop College.*	Moncks Corner, S. C.
Riddle, Betty Louise *Elon College.*	Graham, N. C.

Name and Preparation — *Home Address*

Robeson, Jeanne — Tarheel, N. C.
Flora Macdonald College.

Robinette, Helen M. — Winston-Salem, N. C.
Campbell College.

Robinson, Mary Jean — Clarksburg, W. Va.
Ohio University.

Rowland, Alice Bird — Johnstown, Pa.
University of Pennsylvania.

Sawyer, Mary Harriet — Charlotte, N. C.
Woman's College, University of North Carolina.

Smith, Adella May — Clinton, N. C.
Woman's College, University of North Carolina.

Smith, Annie Ruth — Albemarle, N. C.
Winthrop College.

Smith, Emily June — Odd, Va.
State Teachers College.

Solomon, Hazel — Charlotte, N. C.
Woman's College, University of North Carolina.

Stewart, Katherine — Lillington, N. C.
Campbell College.

Stiglitz, Adelaide — Plainfield, N. J.
Madison College.

Styron, Frances — Goldsboro, N. C.
Woman's College, University of North Carolina.

Taylor, Virginia Louise — Boone, N. C.
St. Mary's School.

Tierney, Helen — Coral Gables, Fla.
University of Miami.

Vannah, Mary — Brevard, N. C.
University of Tennessee.

Vaughan, Louise — Rich Square, N. C.
Peace College.

Wahmann, Nancy — Moultrie, Ga.
Duke University.

Warren, Joyce Elizabeth — Clinton, N. C.
East Carolina Teachers College.

Watkins, Martha Elizabeth — Valdese, N. C.
Lenoir-Rhyne College.

White, Betty Evelyn — Bynum, N. C.
Elon College.

Willcox, Mary Moore — Marion, S. C.
Winthrop College.

Williams, Caroline — Inez, N. C.
Peace College.

Wylie, Ruth Laura — Alloy, W. Va.
West Virginia University.

Yoak, Betty Jo — Ceredo, W. Va.
Marshall College.

FRESHMAN YEAR

Alley, Mary Lee — Greensboro, N. C.
Montreat College;
Woman's College, University of North Carolina.

Baker, Alfreda — Carthage, N. C.
Elon College.

Bason, Betty Greene — Graham, N. C.
Brevard Junior College.

Brevoort, Esther Ruth — Hampton, Va.
Mary Washington College;
Duke University.

Name and Preparation	*Home Address*
Cannady, Edythe Ethel *Abraham Baldwin College;* *Georgia State Woman's College.*	Panama City, Fla.
Carver, Clara *Western Carolina Teachers College.*	Canton, N. C.
Conrad, Phoebe Elizabeth *Edinboro State Teachers College.*	New York, N. Y.
Cooke, Edith Celestia *Duke University.*	Durham, N. C.
Curry, Johnsie Stowe *Woman's College, University of North Carolina;* *High Point College.*	Kannapolis, N. C.
DeLong, Sara Louise *Catawba College.*	Reading, Pa.
Dermid, Emma Olive *Woman's College, University of North Carolina.*	Hendersonville, N. C.
Dettmar, Frances Aileen *Brevard College.*	Kings Mountain, N. C.
Ensign, Carol Joy *University of Florida;* *Florida State College for Women.*	Gainesville, Fla.
Glen, Cecilia W. *Duke University.*	Edisto Island, S. C.
Grant, Margaret Turner *Catawba College;* *Peace Junior College.*	Mocksville, N. C.
Jones, May Craigge *Georgetown College.*	Boca Grande, Fla.
King, Martha Grey *Eastern Carolina Teachers College.*	Louisburg, N. C.
Leach, Martha *Georgia State College for Women.*	Hamlet, N. C.
Lepper, Mary Ellen *Duke University.*	Hastings-on-Hudson, N. Y.
Lineberry, Nancy Eleanor *Peace Junior College.*	Raleigh, N. C.
Luna, Patricia Ardelia *Berea College.*	McMinnville, Tenn.
Miller, Margaret *Woman's College, University of North Carolina;* *Queen's College.*	Aberdeen, N. C.
Miller, Mary Sue *Florida Southern College.*	Lakeland, Fla.
O'Rear, Jean Fray *Kansas City Junior College.*	Evansville, Ind.
Owens, Faith *Winthrop College.*	Charlotte, N. C.
Ransom, Audrey Mae *Mary Washington College.*	Longmeadow, Mass.
Reynolds, Elizabeth Hines *Woman's College, University of North Carolina.*	Rockingham, N. C.
Sharp, Louise Wortham *Woman's College, University of North Carolina.*	Reidsville, N. C.
Smith, Lucy Fay *Salem College.*	Kernersville, N. C.
Sykes, Alice Marie *Radford State Teachers College.*	Clintwood, Va.
Talley, Patricia Ann *Furman University.*	Greenville, S. C.

Name and Preparation — *Home Address*

Taylor, Helen E. — Miami, Fla.
Florida State College for Women.

Thorpe, Annie Louise — Hardeeville, S. C.
Winthrop College.

Trawick, Betty Jean — Sparta, Ga.
Shorter College.

Whitfield, Mae Joyce — Durham, N. C.
Duke University.

Williard, Ruth Boaz — High Point, N. C.
Woman's College, University of North Carolina.

Wirt, Julia B. — Camp Hill, Pa.
Catawba College.

PRE-CLINICAL STUDENTS

Alexander, Henry Quincy — Pineville, N. C.
Mitchell College.

Allen, Sue — Knightdale, N. C.
Brevard Junior College.

Althauser, Ben Eva — Fort Lauderdale, Fla.
Pre-Nursing Course, Duke University.

Anderson, Florence C. — Sumter, S. C.
Furman University; University of South Carolina; Pre-Nursing Course, Duke University.

Armbrister, Elizabeth A. — Bluefield, W. Va.
Pre-Nursing Course, Duke University.

Batchelor, Lucy — Nashville, N. C.
Lees McRae College; Pre-Nursing Course, Duke University.

Battle, Betty Ann — Charlotte, N. C.
Pre-Nursing Course, Duke University.

Beasley, Eleanor — Louisburg, N. C.
Louisburg College; Brevard College.

Berry, Jean Mills — Durham, N. C.
Pre-Nursing Course, Duke University.

Blackwell, Isabel — Marion, S. C.
Limestone College.

Bowden, Mary Ellen — Fitzgerald, Ga.
Mercer University; Pre-Nursing Course, Duke University.

Bowen, Mildred Norton — Durham, N. C.
Pre-Nursing Course, Duke University.

Brewer, Sarah L. — Pittsboro, N. C.
Mars Hill College; Pre-Nursing Course, Duke University.

Brisson, Mittie Jean — Lumberton, N. C.
Mars Hill Junior College; Pre-Nursing Course, Duke University.

Brown, Kathleen Craft — Atlantic Beach, Fla.
Pre-Nursing Course, Duke University.

Caldwell, Reva Fern — Washington, D. C.
N. E. Missouri State Teachers College; Pre-Nursing Course, Duke University.

Campell, Barbara Ann — Gainesville, Fla.
Pre-Nursing Course, Duke University.

Champion, Elizabeth L. — Kannapolis, N. C.
Pre-Nursing Course, Duke University.

Chandler, Dorothy E. — Daytona Beach, Fla.
Converse College; Pre-Nursing Course, Duke University.

Clegg, Elizabeth — Durham, N. C.
Duke University.

Coiner, Bonnie Jean — Waynesboro, Va.
Fairfax Hall Junior College.

Name and Preparation — *Home Address*

Coulson, Florence E. — Arlington, Va.
Holton-Arms Junior College;
Pre-Nursing Course, Duke University.

Dempster, Emily A. — Bethesda, Md.
University of California;
Pre-Nursing Course, Duke University

Dennis, Lee Dorothy — Ann Arbor, Mich.
Pre-Nursing Course, Duke University.

Eddy, Kathryn Evelyn — Charleston, S. C.
Winthrop College.

Edens, Doris A. — Rowland, N. C.
Appalachian State Teachers College;
Pre-Nursing Course, Duke University.

Ferguson, Jean — Riverside, Ill.
Queen's College; Pre-Nursing Course, Duke University.

Fleming, Ilah — Gainesville, Fla.
University of Florida;
Florida State College for Women.

Foushee, Doris Jane — Burlington, N. C.
Meredith College; Greensboro College.

Gammell, Ellen Jane — South Arlington, Va.
Pre-Nursing Course, Duke University.

Garrett, Emily L. — Lancaster, S. C.
Winthrop College; Pre-Nursing Course, Duke University.

Gibson, Patricia Ann — Hampton, Va.
Farmville State Teachers College.

Giles, Dorothy Nell — Huntsville, Ala.
Pre-Nursing Course, Duke University.

Goff, Mary Jean — Fort Benning, Ga.
La Crosse State Teachers College.

Goforth, Ellen — Rutherfordton, N. C.
Mars Hill College.

Haigh, Joanne — Daytona Beach, Fla.
Florida State College for Women;
Pre-Nursing Course, Duke University.

Harris, Margaret Ray — Durham, N. C.
Pre-Nursing Course, Duke University.

Harrison, Betty Jo — Georgetown, Ky.
Georgetown College.

Herbert, Nancy Susan — Charleston, S. C.
Winthrop College.

Hornsby, Viola M. — Jackson, Tenn.
Pre-Nursing Course, Duke University.

Humphrey, Ellen Lanier — Lilesville, N. C.
Lees McRae College.

Johnson, Betsy Ross — Clayton, N. C.
Pre-Nursing Course, Duke University.

Johnson, Betty Louise — Plant City, Fla.
Pre-Nursing Course, Duke University.

Johnson, Irene E. — Smithfield, N. C.
Campbell College; Meredith College;
Pre-Nursing Course, Duke University.

Johnson, Joyce Faye — Fayetteville, N. C.
Pre-Nursing Course, Duke University.

King, Margaret A. — Pleasant Garden, N. C.
Pfeiffer Junior College;
Pre-Nursing Course, Duke University.

Lane, Jacqueline A. — Flat Rock, N. C.
Barnard College; Pre-Nursing Course, Duke University.

Logan, Georgia Bryan — Chapel Hill, N. C.
University of North Carolina.

Name and Preparation	*Home Address*
Lott, Virginia E. *Winthrop College.*	Aiken, S. C.
Lovette, Virginia *Pre-Nursing Course, Duke University.*	Wilkesboro, N. C.
Lucas, Maude Lee *University of North Carolina;* *Pre-Nursing Course, Duke University.*	Hillsboro, N. C.
McDonald, Kathryn Mae *Pre-Nursing Course, Duke University.*	Coral Gables, Fla.
MacDonald, Margaret Joy *Pre-Nursing Course, Duke University.*	Wilson, N. C.
McGowan, Betty Kathleen *Pre-Nursing Course, Duke University.*	Morgantown, W. Va.
McKeever, Shirley Ann *Pre-Nursing Course, Duke University.*	Washington, D. C.
McLendon, Anna Madge *Furman University.*	Greenville, S. C.
Majette, Helen Jones *Mary Washington College;* *Pre-Nursing Course, Duke University.*	Franklin, Va.
Mallard, Madeline O. *East Carolina Teachers College;* *Pre-Nursing Course, Duke University.*	Pollocksville, N. C.
Marston, Peggy Lee *Madison College.*	Edinburg, Va.
Michie, Jacqueline A. *Pre-Nursing Course, Duke University.*	Durham, N. C.
Moore, Ida Inez *William and Mary College;* *Pre-Nursing Course, Duke University.*	Norfolk, Va.
Morgan, Evelyn Davis *Catawba College.*	Salisbury, N. C.
Nicholson, Dorothy J. *Winthrop College;* *Pre-Nursing Course, Duke University.*	Converse, S. C.
Nickles, Sarah Cason *Lander College; Pre-Nursing Course, Duke University.*	Abbeville, S. C.
Otken, Mary Frances *Pre-Nursing Course, Duke University.*	Greenwood, Miss.
Peterson, Barbara Elizabeth *Pre-Nursing Course, Duke University.*	Ann Arbor, Mich.
Pierucci, Dolores *Pre-Nursing Course, Duke University.*	Wilmington, N. C.
Pike, Rubilee *University of South Carolina;* *Pre-Nursing Course, Duke University.*	Columbia, S. C.
Pratt, Betty Jane *Biltmore College; Pre-Nursing Course, Duke University.*	Asheville, N. C.
Pritchett, Sarah Scott *Winthrop College.*	Olanta, S. C.
Reeves, Sara T. *University of Cincinnati;* *Pre-Nursing Course, Duke University.*	Louisville, Ky.
Roller, Jean *State Teachers College;* *Pre-Nursing Course, Duke University.*	Roanoke, Va.
Rouse, Mildred Kathern *Mary Washington College.*	Danville, Va.
Routledge, Sarah Elizabeth *Alabama Polytechnic Institute;* *Pre-Nursing Course, Duke University.*	Rome, Ga.

Name and Preparation — *Home Address*

Rudisill, Bertha — Roxbury, Va.
Pre-Nursing Course, Duke University.

Sally, Jennie Augusta — Durham, N. C.
Duke University; Pre-Nursing Course, Duke University.

Schriver, Anne Loretta — Point Pleasant, W. Va.
Sacred Heart Ursuline College.

Seay, Margaret — Waldo, Fla.
Florida State College for Women.

Short, Zelda Marie — Bluefield, W. Va.
Bluefield College; Pre-Nursing Course, Duke University.

Smith, Betty Jacqueline — Rocky Mount, N. C.
Pre-Nursing Course, Duke University.

Smith, Edith E. — Louisville, Ky.
Franklin College of Indiana;
Pre-Nursing Course, Duke University.

Smith, Margaret Louise — Fremont, N. C.
Pre-Nursing Course, Duke University.

Smith, Sara Janet — Raleigh, N. C.
Pre-Nursing Course, Duke University.

Snyder, Cora Crawford — Shepherdstown, W. Va.
Duke University; Pre-Nursing Course, Duke University.

Strother, Wincey Irene — High Point, N. C.
High Point College.

Swartz, Betty Jane — York, Pa.
York Junior College.

Talley, Rebecca Jane — Fuquay Springs, N. C.
Mars Hill College; Pre-Nursing Course, Duke University.

Taylor, Jane Louise — Fuquay Springs, N. C.
Appalachian State Teachers College;
Pre-Nursing Course, Duke University.

Thomas, Wilma Anne — York, S. C.
Appalachian State Teachers College.

Thomasson, Katie Lee — Durham, N. C.
Pre-Nursing Course, Duke University.

Tinsley, Mary Alice — Brevard, N. C.
Brevard College.

Veazey, Vivian Claire — Shelby, N. C.
Lees McRae College.

Walker, Mary Clair — Winston-Salem, N. C.
Woman's College of the University of North Carolina;
Pre-Nursing Course, Duke University.

Warner, Regina Frost — High Point, N. C.
Meredith College; High Point College;
Pre-Nursing Course, Duke University.

Welsh, Sarah Ruth — Lumberton, N. C.
Pre-Nursing Course, Duke University.

Westman, Dorothy — Buffalo, N. Y.
Pre-Nursing Course, Duke University.

Williams, Mary Elizabeth — New Bern, N. C.
Woman's College, University of North Carolina.

Windham, Faye Cary — Durham, N. C.
Pre-Nursing Course, Duke University.

THE SCHOOL OF FORESTRY

REGULAR STUDENTS

Berry, Frederick Hamer — Staunton, Va.
B.S., Duke University, 1943.

Matte, Lorenzo — Rimouski, Que., Canada
B.A., Université Laval, 1932;
Bachelor of Surveying, Université Laval, 1939;
Forestry Engineer, Université Laval, 1939.

Olson, Earl Franklin — Norris, Tenn.
B.S., Iowa State College, 1933.

ACADEMIC-FORESTRY STUDENTS

Coman, James Hilary, Jr. — Durham, N. C.
Johnstone, Robert Dale — Munhall, Pa.

SUMMARY

GOVERNMENT, ADMINISTRATION, AND INSTRUCTION

Governing Boards		51
Trustees of Duke University	36	
Trustees of Duke Endowment	15	
Officers of Administration		78
The University	6	
Trinity College, the Woman's College, the College of Engineering and the Schools	21	
Assistants in Administration	51	
Officers of Instruction		515*
Professors	105	
Associate Professors	61	
Assistant Professors	105	
Instructors	174	
Instructional Assistants	70†	
Staff of University Libraries		70
Total		714

STUDENTS

Trinity College and the College of Engineering		5,598
(On Navy V-12 program; 2,494 duplicates)		
March 1, 1944-June 23, 1944, Semester	1,747	
November 1, 1943-February 24, 1944, Semester	1,907	
July 1, 1943-October 23, 1943, Semester	1,944	
Woman's College		903
Seniors	179	
Juniors	194	
Sophomores	223	
Freshmen	285	
Special Students	22	
The Graduate School of Arts and Sciences		370
(122 of these in regular academic year)		
The School of Law		36
First Year	18	
Second Year	8	
Third Year	9	
Unclassified	1	
The School of Medicine		407
First Year	76	
Second Year	76	
Junior Year	68	
Senior Year	82	
Graduates (Interns and Residents)	105	
The School of Nursing		262

* Not including visiting members of Summer Session Faculty.
† Not including Graduate Assistants, Fellows, and Scholars, some of whom meet classes.

Technicians		28
The School of Dietetics		10
The Divinity School		134
Seniors	39	
Middle Year	44	
Juniors	51	
The School of Forestry		5
The Summer Session		1,722
(283 duplicates in Summer Session; 588 enrolled in regular academic year.)		
Graduates, First Term	272	
Graduates, Second Term	157	
Undergraduates, First Term	581	
Undergraduates, Second Term	150	
Summer Quarter, Schools of Medicine and Nursing	544	
Summer Semester, School of Law	18	
		9,475
Deducation for names appearing more than once		3,613
Enrollment for 12 months' period		5,862
Enrollment in academic year (Less duplicates in V-12 program)		5,011

GIFTS AND BEQUESTS

Duke University derives its principal support from endowment funds and from miscellaneous gifts and grants. Permanently invested capital funds enable the University to offer to students academic and professional training at a fraction of its actual cost. The effectiveness of the University is determined to a large extent by its financial resources.

Gifts and bequests devoted to the improvement of the work of the University will be received and administered by the trustees in accordance with the desires of the donor.

Gifts. Any kind of property, real or personal, may be the subject of a gift and only such form as is required to pass title is necessary. If the gift consists of real property, the title will be passed by deed; if it consists of cash or unregistered bonds, the gift is consummated by delivery of the property; or if stocks, by delivery of properly endorsed stock certificates. Unless restricted, the use of gifts is at the discretion of the Board of Trustees. Usually the proceeds, conservatively invested, are added to the permanent endowment of the University. The donor may, however, restrict the use of any gift and designate definitely the objects for which it shall be used. In such cases, the transfer of property would be accomplished by a letter or other document describing in detail the objects for which the proceeds of the gift are to be used and when accepted by the University the terms or conditions set out therein become binding upon it.

Bequests. Bequests may be made to the University by an appropriate clause inserted in a will or by codicil to a will already drawn. The following forms will serve as appropriate clauses for wills or codicals:

General

I give (devise; if real property) and bequeath to Duke University, a corporation existing under the laws of the State of North Carolina and located in the City and County of Durham, State of North Carolina, and its successors forever the sum of..... dollars (or otherwise describe the gift) for the general purposes and uses of the University at the discretion of the Board of Trustees.

Specific

I give (devise; if real property) and bequeath to Duke University, a corporation existing under the laws of the State of North Carolina and located in the City and County of Durham, State of North Carolina, or its successors forever the sum of .....dollars (or otherwise describe gift) and direct that the income therefrom shall be used for the following purposes, viz. (here describe in detail the use desired).

Codicil

Having herebefore made my last Will and Testament dated.....

....., and being of sound mind, I hereby make, publish, and declare the following codicil thereto; (here insert clause in same form as if it had been included in body of Will). Except as hereinbefore changed, I hereby ratify, confirm and republish my said last Will and Testament.

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